CMT-CP101

SERVICE MANUAL

Ver 1.0 2002.02

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model

- CMT-CP101 is composed of following models.
  As for the service manual, it is issued for each component model, then, please refer to them.

COMPONENT MODEL NAME

	CMT-CP101
COMPACT DISC DECK RECEIVER SYSTEM	HCD-CP101
SPEAKER SYSTEM	SS-CCP101

SPECIFICATIONS

Power requirements
North American model: 120 V AC, 60 Hz
European model: 230 V AC, 50/60 Hz
Australian model: 230 V AC, 50/60 Hz
Mexican model: 120 V AC, 60 Hz
Other model: 110 - 120 V or 220 - 240 V AC, 50/60 Hz
Adjustable with voltage selector

Power consumption
European model: See the nameplate
0.5 W (in the standby mode)
Other model: See the nameplate

Dimensions (w/h/d): Approx. 190 × 252 × 340 mm incl. projecting parts and controls

Mass: Approx. 5.6 kg

Supplied accessories: Remote Commander (1)
AM loop antenna (1)
FM lead antenna (1)
Batteries (2)

Design and specifications are subject to change without notice.

ACCESSORIES

Part No.	Description	Remark
1-477-239-11	REMOTE COMMANDER (RM-S171)	
1-501-374-11	ANTENNA, LOOP (AM)	
1-501-659-41	ANTENNA (FM) (AR)	
1-501-659-61	ANTENNA (FM) (US, CND, E, MX, SP)	
1-754-060-11	ANTENNA (FM) (AEP, UK, AUS)	
⚠1-569-008-21	ADAPTOR, CONVERSION 2P (SP)	
4-230-866-01	COVER (BATTERY) (for RM-S171)	
4-239-402-11	MANUAL, INSTRUCTION (ENGLISH)	(US, CND, AEP, UK, E, AUS, AR, SP)
4-239-402-21	MANUAL, INSTRUCTION (FRENCH, SPANISH)	(AEP, E, SP)
4-239-402-31	MANUAL, INSTRUCTION (FRENCH) (US, CND)	
4-239-402-41	MANUAL, INSTRUCTION (SPANISH) (AR, MX)	
4-239-402-51	MANUAL, INSTRUCTION (GERMAN, DUTCH, ITALIAN, SWEDISH, POLISH)	(AEP)
4-239-402-61	MANUAL, INSTRUCTION (TRADITIONAL CHINESE)	(SP)
4-239-403-11	MANUAL, INSTRUCTION (DANISH, FINNISH) (AEP)	
4-239-403-21	MANUAL, INSTRUCTION (PORTUGUESE) (AEP)	
4-239-403-31	MANUAL, INSTRUCTION (RUSSIAN) (AEP)	
4-239-404-11	MANUAL, INSTRUCTION (GREEK) (AEP)	
4-239-404-21	MANUAL, INSTRUCTION (HUNGARIAN, CZECH)	(AEP)
4-239-404-31	MANUAL, INSTRUCTION (TURKISH) (AEP)	
4-239-404-41	MANUAL, INSTRUCTION (SLOVAKIAN) (AEP)	

- Abbreviation
  AR : Argentine model
  AUS : Australian model
  CND : Canadian model
  MX : Mexican model
  SP : Singapore model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MICRO Hi-Fi COMPONENT SYSTEM

9-873-626-01 **Sony Corporation**
2002B0500-1 **Home Audio Company**
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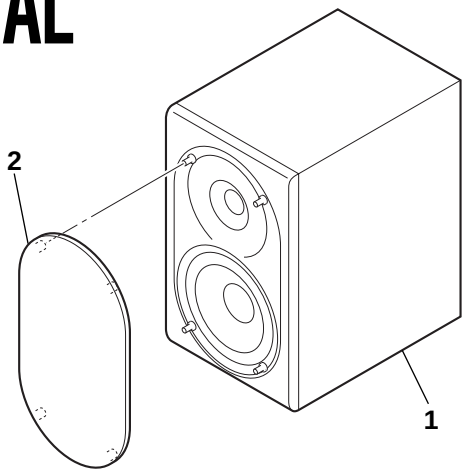
SONY

SS-CCP101

SERVICE MANUAL

Ver 1.0 2002.02



US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model

• SS-CCP101 is the speaker system in CMT-CP101/CP101K.

SPECIFICATIONS

Speaker system	Two-way, bass reflex system
Speaker units	11 cm dia., cone type woofer 2.5 cm dia., semi-dome-type tweeter
Rated impedance	6 ohms
Dimensions (w/h/d)	Approx. 154 × 252 × 230 mm
Mass	Approx. 2.5 kg net per speaker

Design and specifications are subject to change without notice.

PARTS LIST

Ref. No.	Part No.	Description	Remark
1	A-4735-821-A	BOX (L) ASSY, SPK	
1	A-4735-823-A	BOX (R) ASSY, SPK	
2	A-4954-452-A	NET ASSY, SPK	

SPEAKER SYSTEM

9-873-628-01
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REVISION HISTORY

Clicking the version allows you to jump to the revised page.
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Ver.	Date	Description of Revision
1.0	2002.02	New

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Ver.	Date	Description of Revision
1.0	2002.02	New

HCD-CP101

SERVICE MANUAL

Ver 1.4 2003.02

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model

HCD-CP101 is the Amplifier, CD player, Tape Deck and Tuner section in CMT-CP101.

CD Section	Model Name Using Similar Mechanism	HCD-CP100
	CD Mechanism Type	CDM55F-K6BD41A
	Optical Pick-up Name	KSM-213DHAP
Tape deck Section	Model Name Using Similar Mechanism	NEW

SPECIFICATIONS

Amplifier section

AUDIO POWER SPECIFICATIONS

(US model only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6-ohm loads, both channels driven, from 70 - 20,000 Hz; rated 18 watts per channel minimum RMS power, with no more than 0.9% total harmonic distortion from 250 milliwatts to rated output.

North American model:

Continuous RMS power output (reference): 35 + 35 W (6 ohms at 1 kHz, 10% THD)

Total harmonic distortion less than 0.07% (6 ohms at 1 kHz, 18 W)

European model:

DIN power output (rated): 30 + 30 W (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 35 + 35 W (6 ohms at 1 kHz, 10% THD)

Music power output (reference): 85 + 85 W

Other models:

The following measured at 230 V AC, 60 Hz

DIN power output (rated): 27 + 27 W (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 32 + 32 W (6 ohms at 1 kHz, 10% THD)

The following measured at 220 V AC, 60 Hz

DIN power output (rated): 23 + 23 W (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 26 + 26 W (6 ohms at 1 kHz, 10% THD)

Inputs

AUDIO IN MD (VIDEO) (phono jacks): Sensitivity 500/250 mV, impedance 47 kilohms

Outputs

OPTICAL DIGITAL OUT (CD): Optical

PHONES: Accepts headphones with an impedance of 8 ohms or more

SPEAKER: 6 ohms

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser (λ = 780 nm) Emission duration: continuous
Wavelength	780 - 790 nm
Frequency response	2 Hz - 20 kHz (±0.5 dB)

Tape player section

Recording system	4-track 2-channel stereo
Frequency response	50 - 13,000 Hz (±3 dB), using a Sony TYPE I cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	
North American model:	87.5 - 108.0 MHz (100-kHz step)
Other models:	87.5 - 108.0 MHz (50-kHz step)
Antenna	FM wire antenna
Antenna terminals	75 ohms unbalanced
Intermediate frequency	10.7 MHz

– Continued on next page –

COMPACT DISC DECK RECEIVER

9-873-627-05
2003B0500-1
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AM tuner section

Tuning range	
Pan-American model:	530 - 1,710 kHz (with the tuning interval set at 10 kHz) 531 - 1,710 kHz (with the tuning interval set at 9 kHz)
European model:	531 - 1,602 kHz (with the tuning interval set at 9 kHz)
Other models:	530 - 1,710 kHz (with the tuning interval set at 10 kHz) 531 - 1,602 kHz (with the tuning interval set at 9 kHz)
Antenna	AM loop antenna, external antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
North American model:	120 V AC, 60 Hz
European model:	230 V AC, 50/60 Hz
Australian model:	230 V AC, 50/60 Hz
Mexican model:	120 V AC, 60 Hz
Korean model:	230 V AC, 50/60 Hz
Other models:	110 - 120 V or 220 - 240 V AC , 50/60 Hz Adjustable with voltage selector
Power consumption	
European model:	See the nameplate 0.5 W (in the standby mode)
Other models:	See the nameplate
Dimensions (w/h/d)	Approx. 190 × 252 × 340 mm incl. projecting parts and controls
Mass	Approx. 5.6 kg
Supplied accessories	Remote commander (1) AM loop antenna (1) FM wire antenna (1) Batteries (2)

Design and specifications are subject to change without notice.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

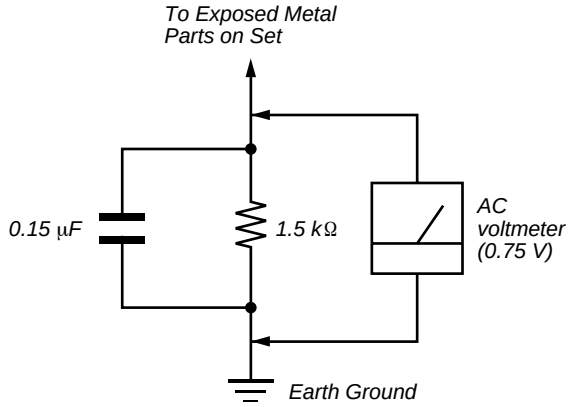

Fig. A. Using an AC voltmeter to check AC leakage.

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SECTION 1
SERVICING NOTES

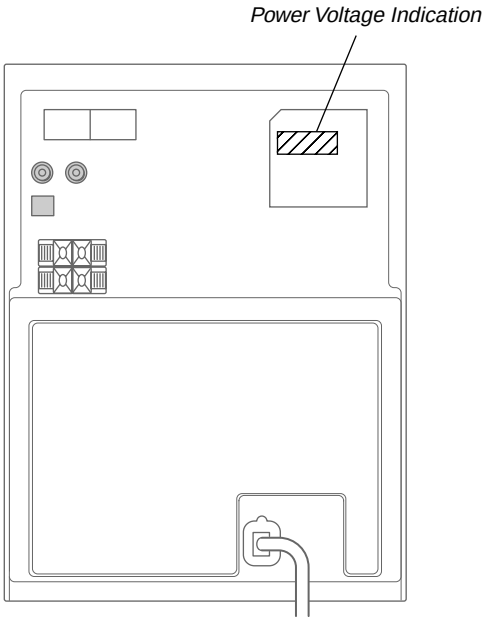
NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

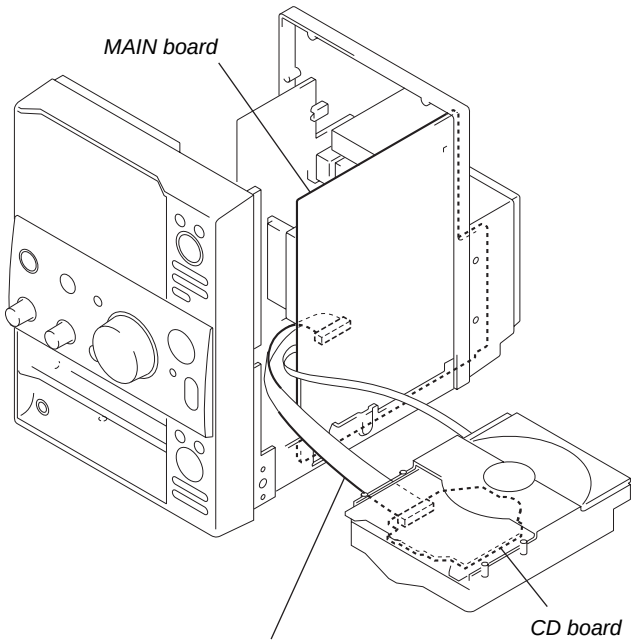
• MODEL IDENTIFICATION
– Rear Panel –



Model	Power Voltage Incdication
US, Canadian and Mexican models	AC: 120 V 60 Hz 75 W
AEP, UK, Korean and Australian models	AC: 230 V ∿50/60 Hz 75 W
E, Singapore and Argentina models	AC: 110 – 120/ 220 – 240 V / 50/60 Hz 75 W

SERVICE POSITION

In checking the CD block, prepare jig (extension cable J-2501-011-B: 1.25 mm Pitch, 19 cores, Length 300 mm).



Connect jig (extension cable J-2501-011-B) to the MAIN board (CN101) and CD board (CN101).

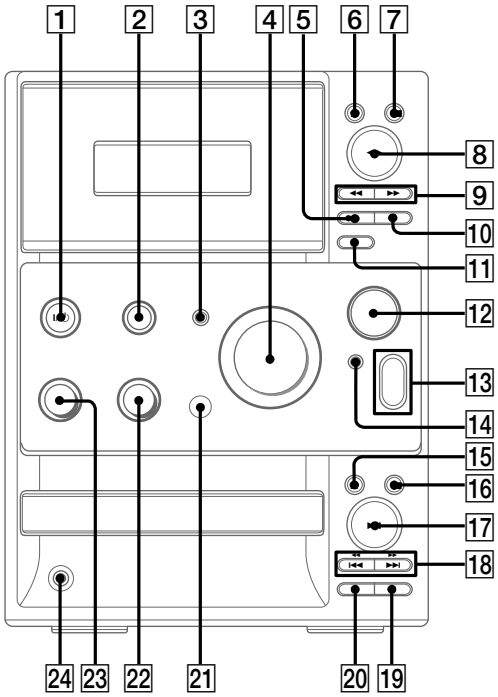
This section is extracted from instruction manual.

SECTION 2
GENERAL

• LOCATION OF CONTROLS

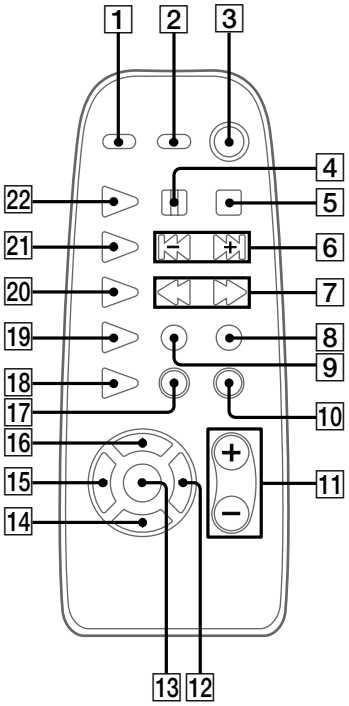
– Front View –

BASS 23 (15)
CD EJECT ⏏ 15 (8)
CD SYNC 11 (13, 14)
CD ▶II 17 (8, 9)
CD ■ 16 (8–10, 18, 20)
CD I◀◀ /▶▶I 18 (8, 9)
CD ◀◀/▶▶ 18 (8)
DSG 3 (15)
FUNCTION 2 (8–10, 12, 13, 18)
PHONES jack 24
PLAY MODE 20 (8, 9, 14)
Remote sensor 21
REPEAT 19 (8)
TAPE EJECT ⏏ 6 (12)
TAPE ● REC 5 (13)
TAPE ◀▶ 8 (12–14)
TAPE II 10 (12–14)
TAPE ■ 7 (12–14, 20)
TAPE ◀◀/▶▶ 9 (12)
TREBLE 22 (15)
TUNER BAND 12 (9, 10, 20)
TUNING MODE 14 (9–11)
TUNING +/– 13 (9–11)
VOLUME 4 (17)
I/⏻ (power) 1 (7, 10, 15, 17)



– Remote Control –

CD REPEAT 18 (8)
CD ► 22 (8, 9)
DIR MODE 19 (12–14)
DISPLAY 2 (11, 16)
DSG 1 (15)
ENTER 13 (7, 10, 15, 17)
FM MODE 9 (11)
FUNCTION 17 (8–10, 12, 13, 18)
MEMORY 16 (10)
SLEEP 14 (16)
TAPE ◄► 20 (12–14)
TIMER SELECT 12 (15, 17)
TIMER SET 15 (7, 14, 17)
TUNER/BAND 21 (10)
TUNING MODE/PLAY MODE 10 (8, 9, 10, 11, 14)
VOL +/– 11 (17)
❚❚ 4 (8, 12–14)
■ 5 (8, 9, 12–14)
I◄◄/►►I 6 (7–10, 14, 15, 17)
◄◄/►► 7 (8, 10–12)
I/⏻ (power) 3 (7, 15, 17)
● REC 8 (13)



Setting the clock

1 Turn on the system.

2 Press TIMER SET on the remote.

3 Press I◄◄/►►I on the remote repeatedly to set the hour.

4 Press ENTER on the remote.
The minute indication flashes.

5 Press I◄◄/►►I on the remote repeatedly to set the minute.

6 Press ENTER on the remote.
The clock will begin operating.

To adjustthe clock

1 Press TIMER SET on the remote.

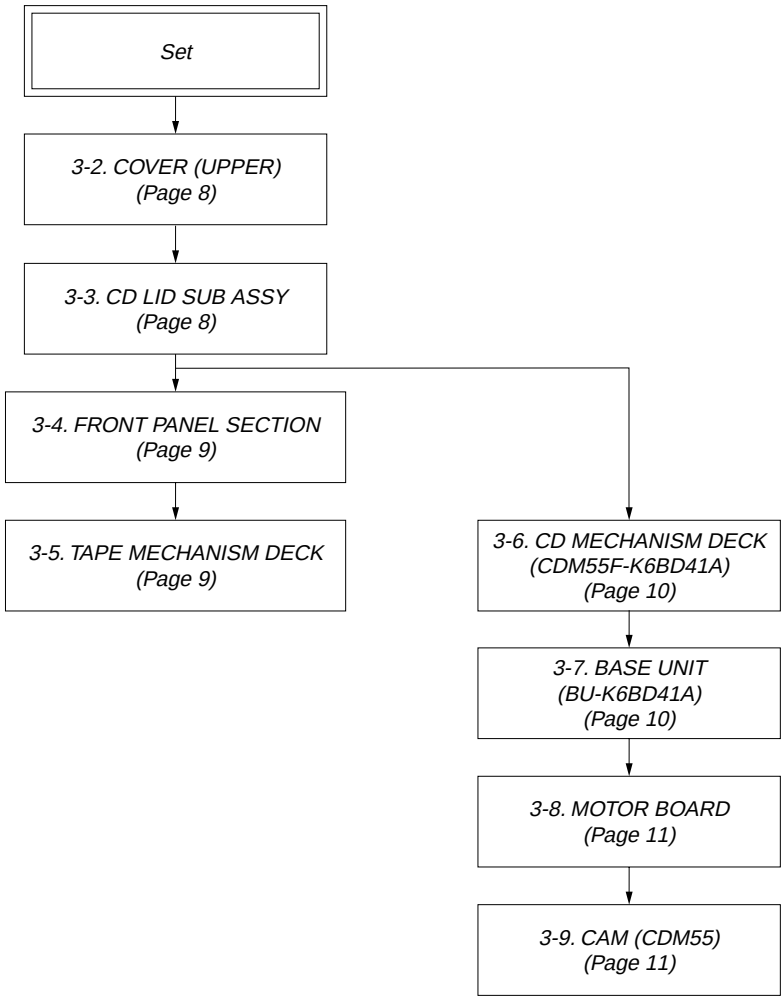
2 Press I◄◄ or ►►I on the remote to select "SET CLOCK", then press ENTER on the remote.

3 Do the same procedures as step 3 to 6 above.

SECTION 3
DISASSEMBLY

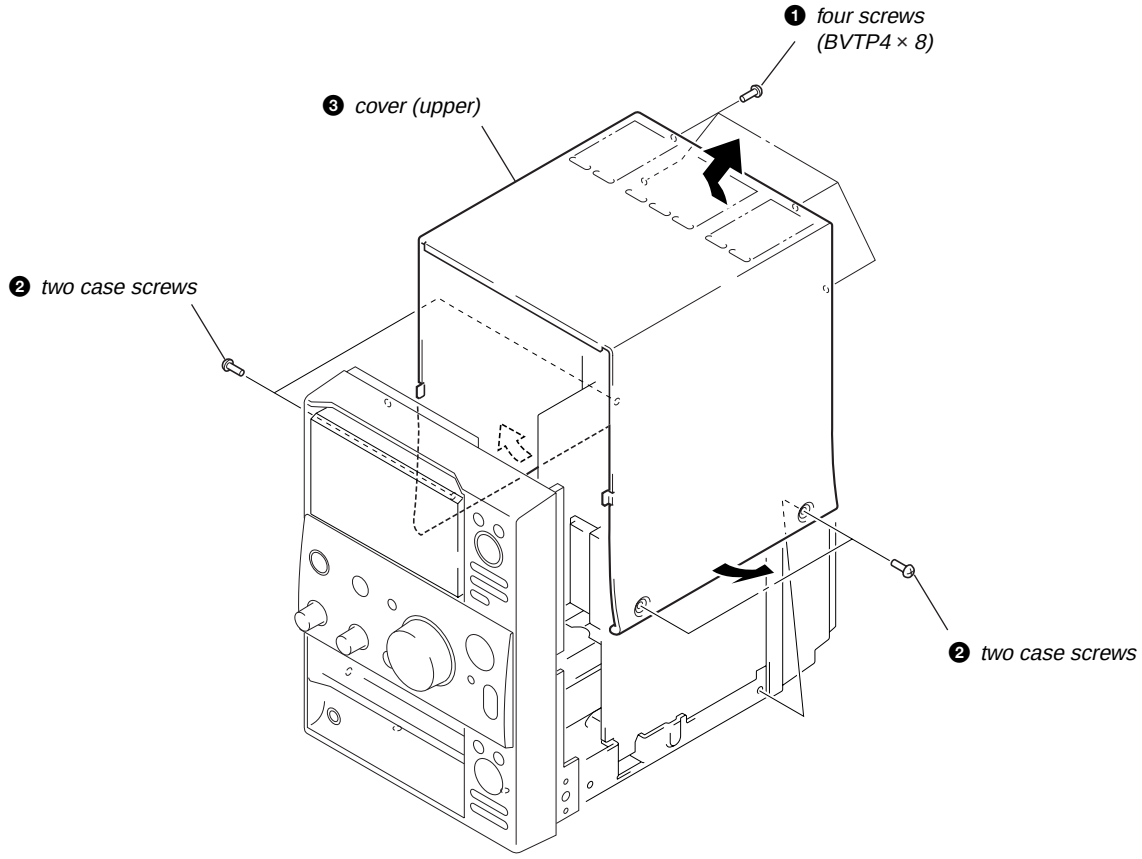
• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

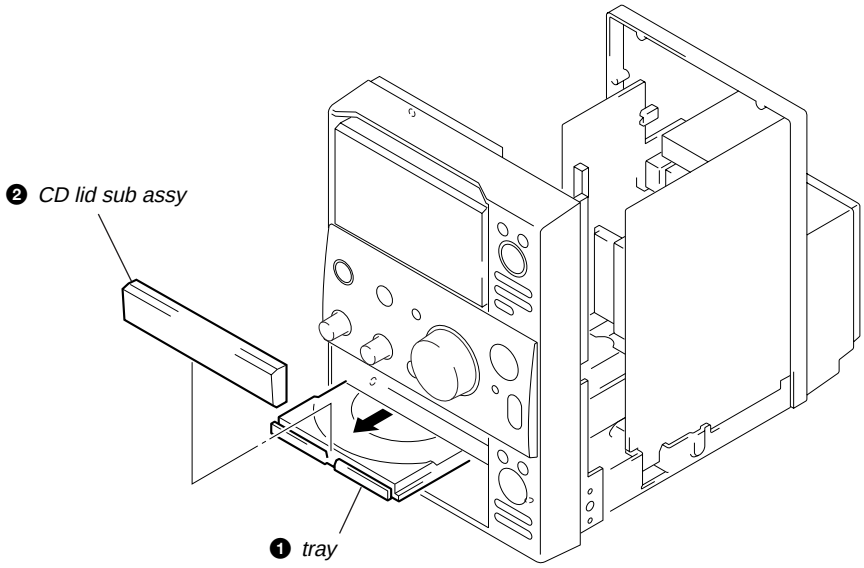


Note: Follow the disassembly procedure in the numerical order given.

3-2. COVER (UPPER)

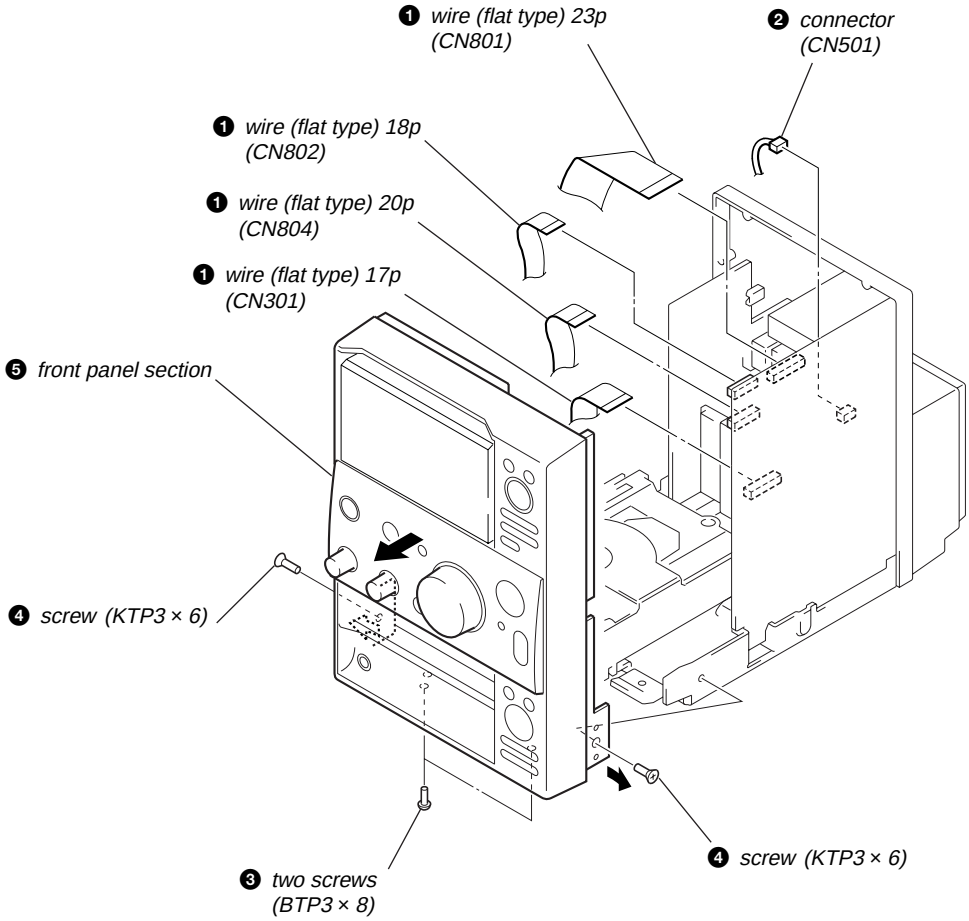


3-3. CD LID SUB ASSY

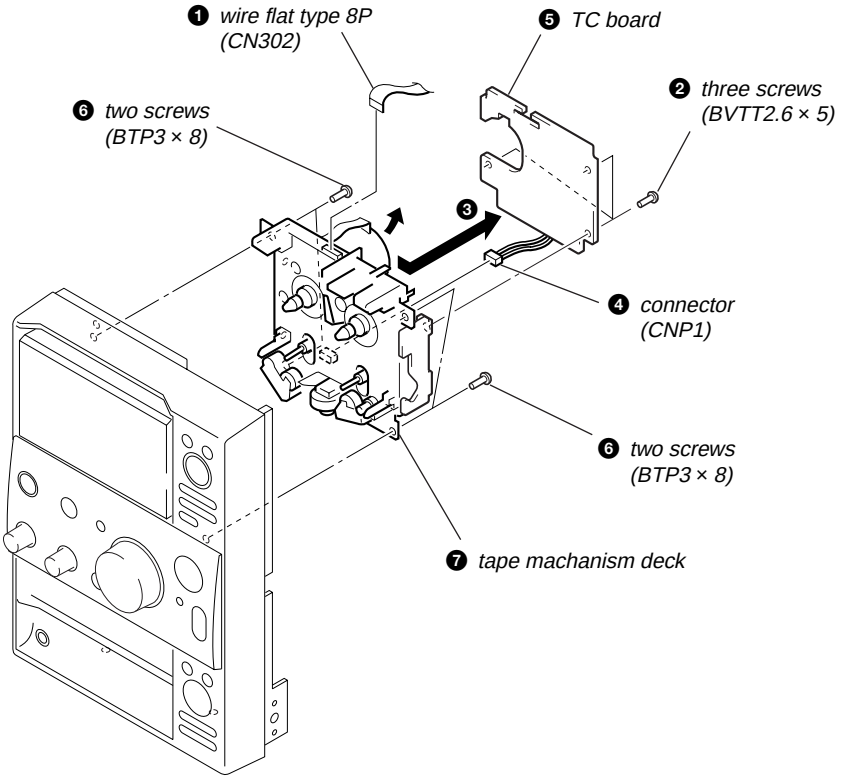


Note: Open the tray by supplying the power.

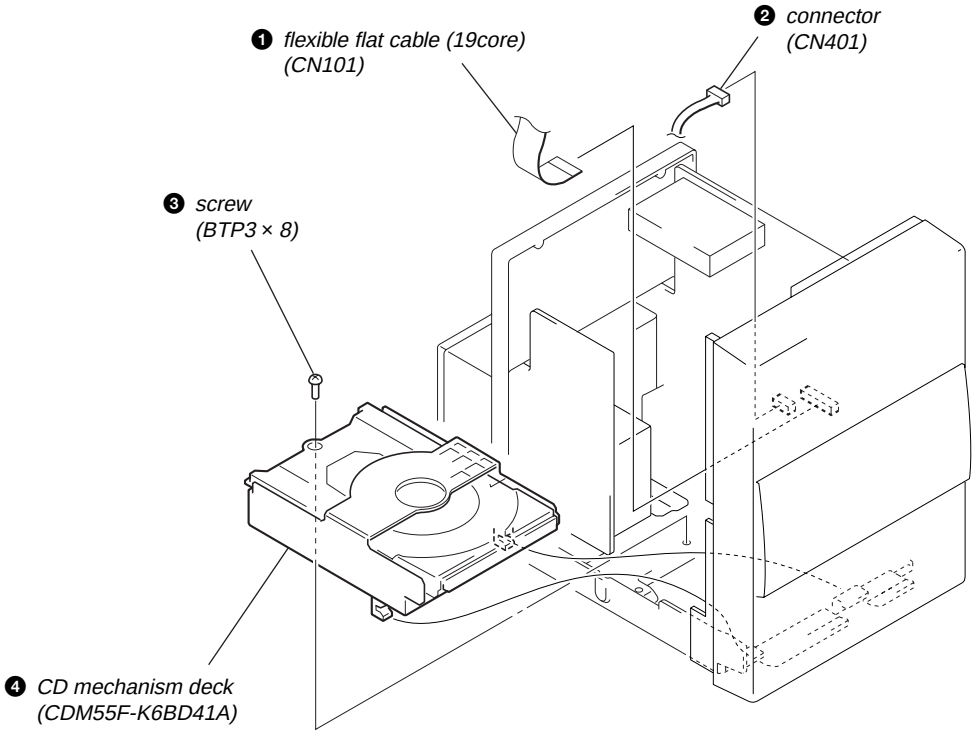
3-4. FRONT PANEL SECTION


❶ wire (flat type) 23p (CN801)
❷ connector (CN501)
❶ wire (flat type) 18p (CN802)
❶ wire (flat type) 20p (CN804)
❶ wire (flat type) 17p (CN301)
❺ front panel section
❹ screw (KTP3 × 6)
❸ two screws (BTP3 × 8)
❹ screw (KTP3 × 6)

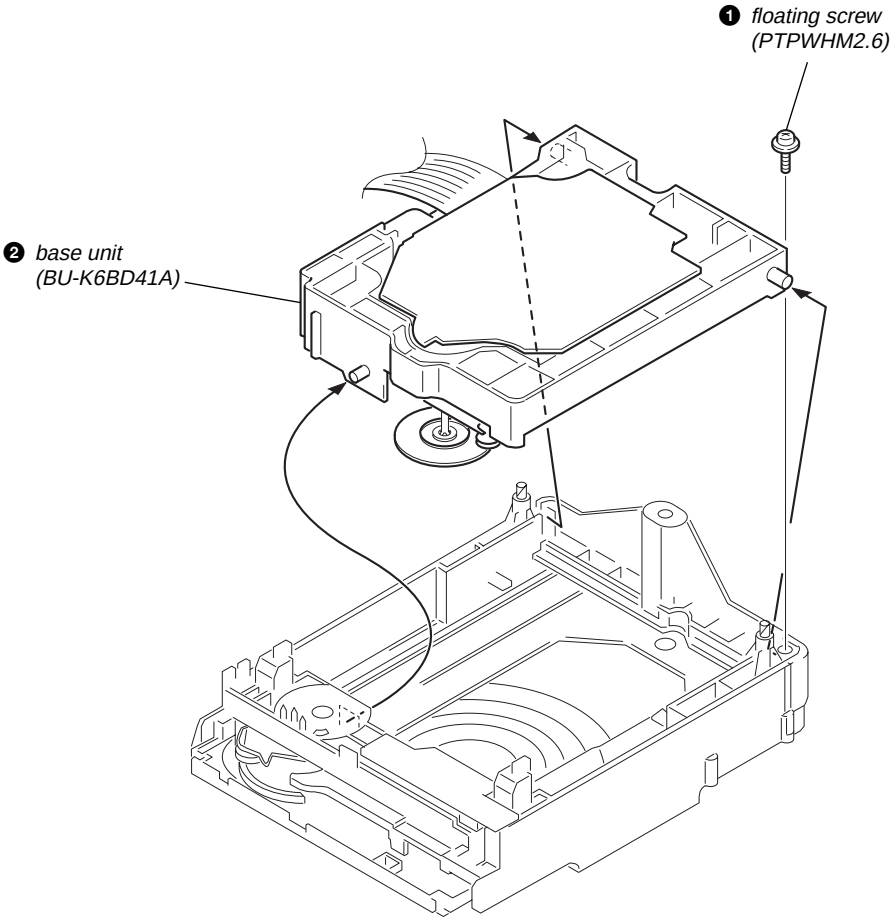
3-5. TAPE MECHANISM DECK


❶ wire flat type 8P (CN302)
❺ TC board
❷ three screws (BVTT2.6 × 5)
❻ two screws (BTP3 × 8)
❸
❹ connector (CNP1)
❻ two screws (BTP3 × 8)
❼ tape machanism deck

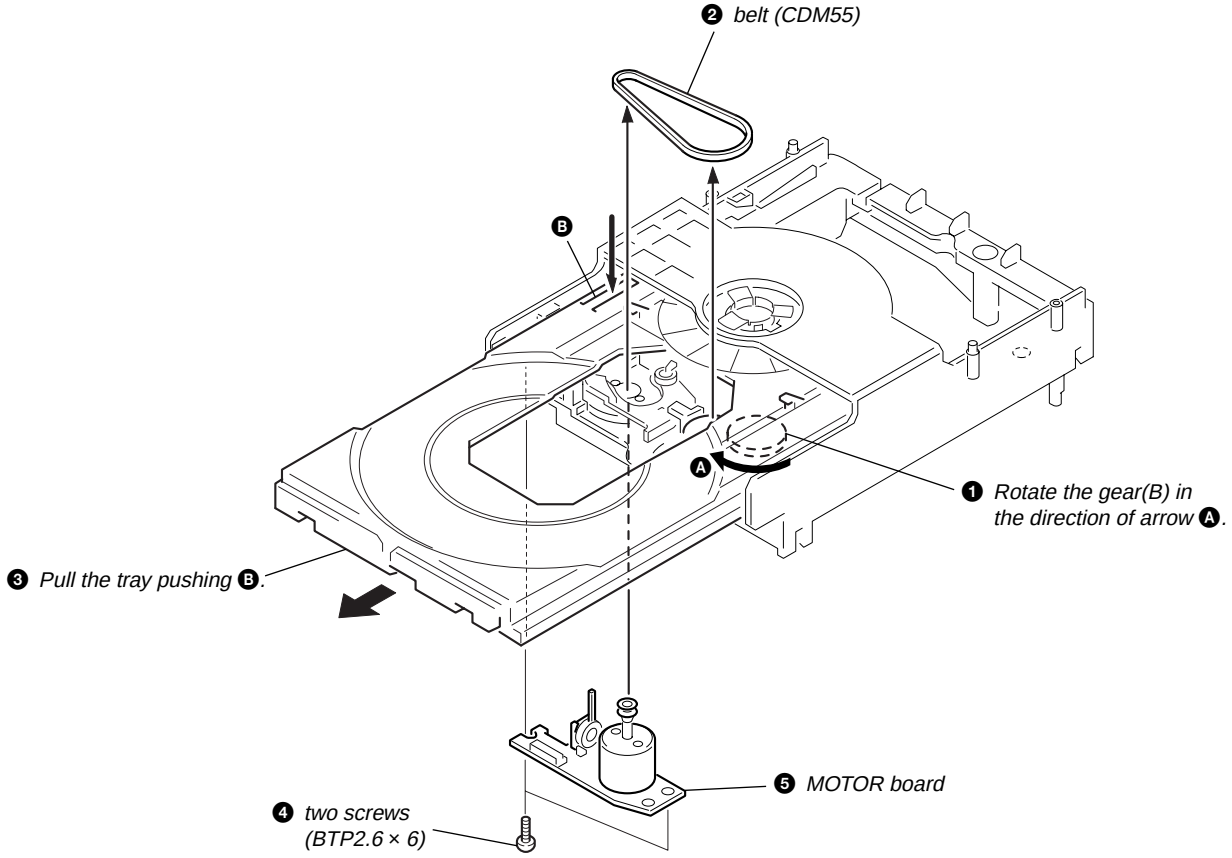
3-6. CD MECHANISM DECK (CDM55F-K6BD41A)



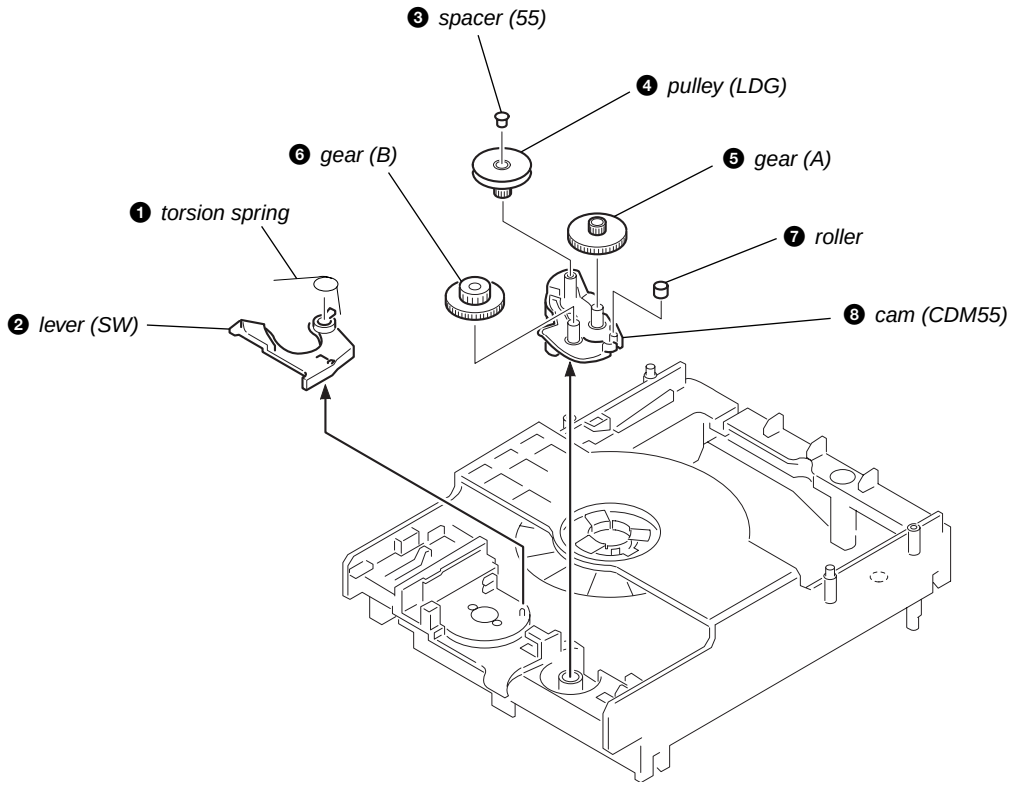
3-7. BASE UNIT (BU-K6BD41A)



3-8. MOTOR BOARD



3-9. CAM (CDM55)



SECTION 4
TEST MODE

[COLD RESET]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Turn ON the power.
2. Press three buttons of ■ (TAPE), ■ (CD), and BAND simultaneously.
3. The set is reset.

[LIQUID CRYSTAL DISPLAY ALL LIT CHECK MODE]

Procedure:

1. Set to standby state.
2. Press three buttons of ■ (TAPE), ■ (CD), and TUNING MODE simultaneously.
3. Liquid crystal display are all turned on.
4. To exit from this mode, press the I/⏻ button to turn the power OFF.

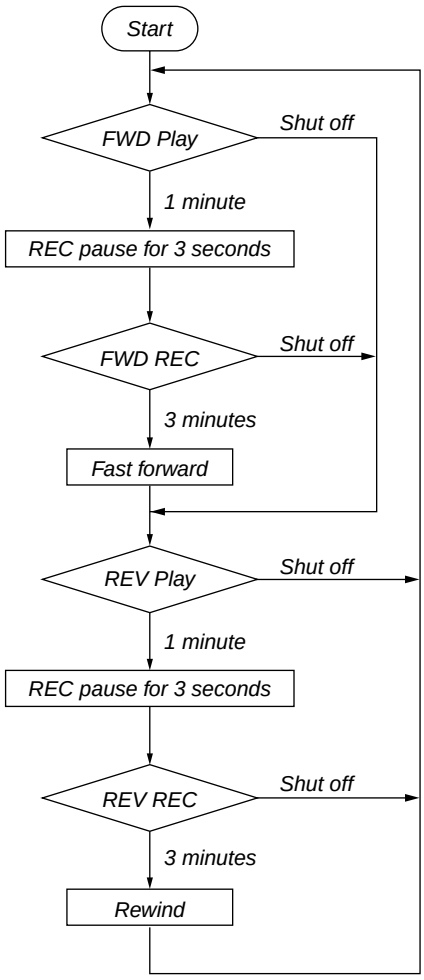
[TAPE DECK AGING MODE]

This mode can be used for operation check of tape deck section.

Procedure:

1. Set a tape in the tape deck.
2. Set to standby state.
3. Press three buttons of ■ (TAPE), ■ (CD), and TUNING + simultaneously.
4. The aging is executed in bellow sequence.
5. To exit from the aging mode, press the I/⏻ button to turn the power OFF.

Aging mode sequence:



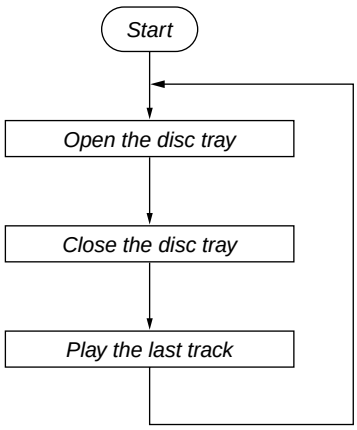
[CD AGING MODE]

This mode can be used for operation check of CD section.

Procedure:

1. Load a CD disc.
2. Set to standby state.
3. Press three buttons of ■ (TAPE), ■ (CD), and TUNING – simultaneously.
4. The aging is executed in bellow sequence.
5. To exit from the aging mode, press the I/⏻ button to turn the power OFF.

Aging mode sequence:



[CHANGE-OVER MD/VIDEO]

Procedure:

1. Set to standby state.
2. Press the ■ (CD) and the FUNCTION buttons simultaneously.
   The function changes over to MD or VIDEO by turns.

[CHANGE-OVER THE AM TUNING INTERVAL] (EXCEPT AEP and UK models)

- The AM tuning interval can be changed over 9 kHz or 10 kHz.

Procedure:

1. Press the I/⏻ button to turn the power ON.
2. Select the function “TUNER”, and press the BAND button to select the BAND “AM”.
3. Press the I/⏻ button to turn the power OFF.
4. Change over to 9 kHz:
   Press the TUNING – and the ■ (CD) buttons simultaneously.
   Change over to 10 kHz:
   Press the TUNING + and the ■ (CD) buttons simultaneously.

SECTION 5
ELECTRICAL ADJUSTMENTS

DECK SECTION | 0 dB=0.775 V

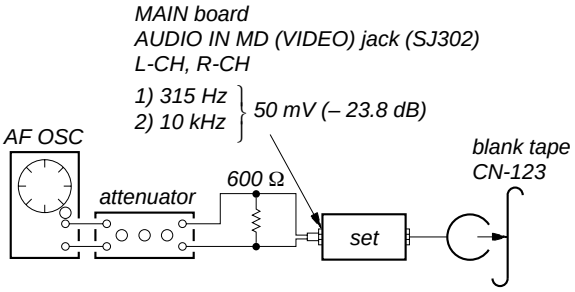
Note: Confirm each contents of this section first of all. If the results are not satisfied, do the adjustment.

1. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
2. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
3. The adjustments should be performed for both L-CH and R-CH.

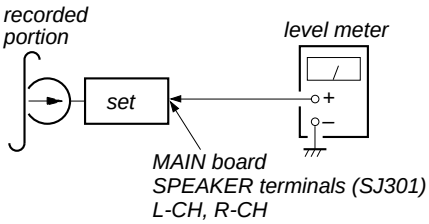
REC BIAS ADJUSTMENT

Procedure:

1. Mode: REC
   FUNCTION: VIDEO



2. Mode: Playback

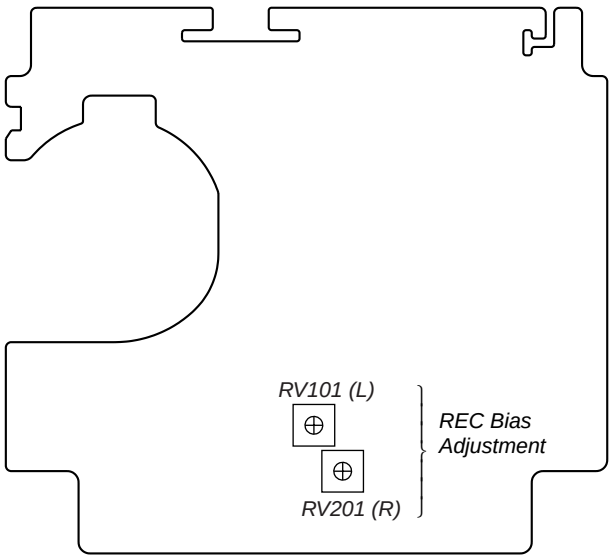


3. Confirm playback the signal recorded in step 1 become specified values as follows.
   If these values are out of specification values, adjust the RV101 (L-CH) and RV201 (R-CH) on the TC board to repeat steps 1and 2.

Specified values: Playback output of 315 Hz to playback output of 10 kHz: ± 0.5 dB

Adjustment Location:

– TC BOARD (Component Side) –

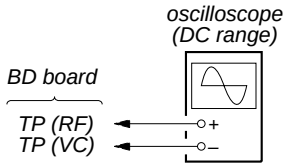


CD SECTION

Note:

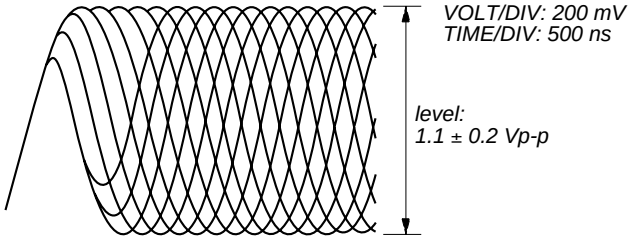
1. CD Block is basically constructed to operate without adjustment.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10 MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Check the focus bias check when optical block is replaced.

FOCUS BIAS CHECK



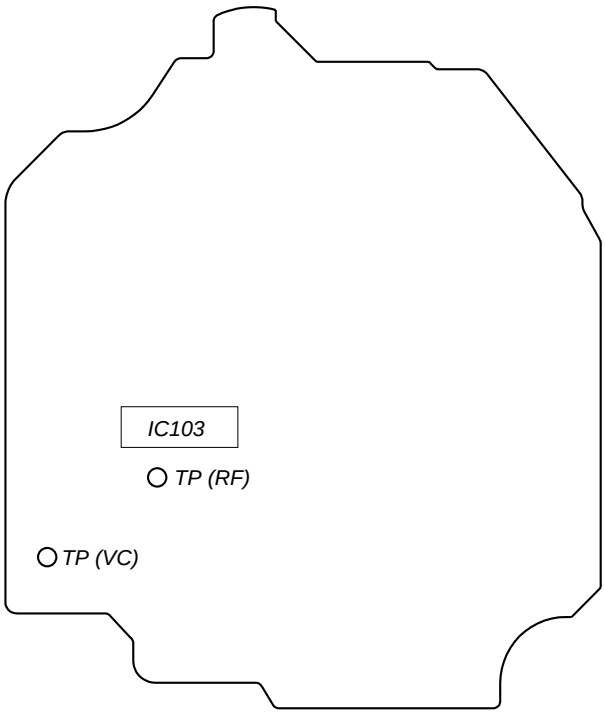
Procedure :

1. Connect oscilloscope to TP (RF) and TP (VC) on the CD board.
2. Press the I/⏻ button to turn the power on, and press the ⏏ (CD) button to open the CD disc tray.
3. Put disc (YEDS-18) in and press the ▶II (CD) button to play-back.
4. Confirm that oscilloscope waveform is as shown in the figure below. (eye pattern)
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.



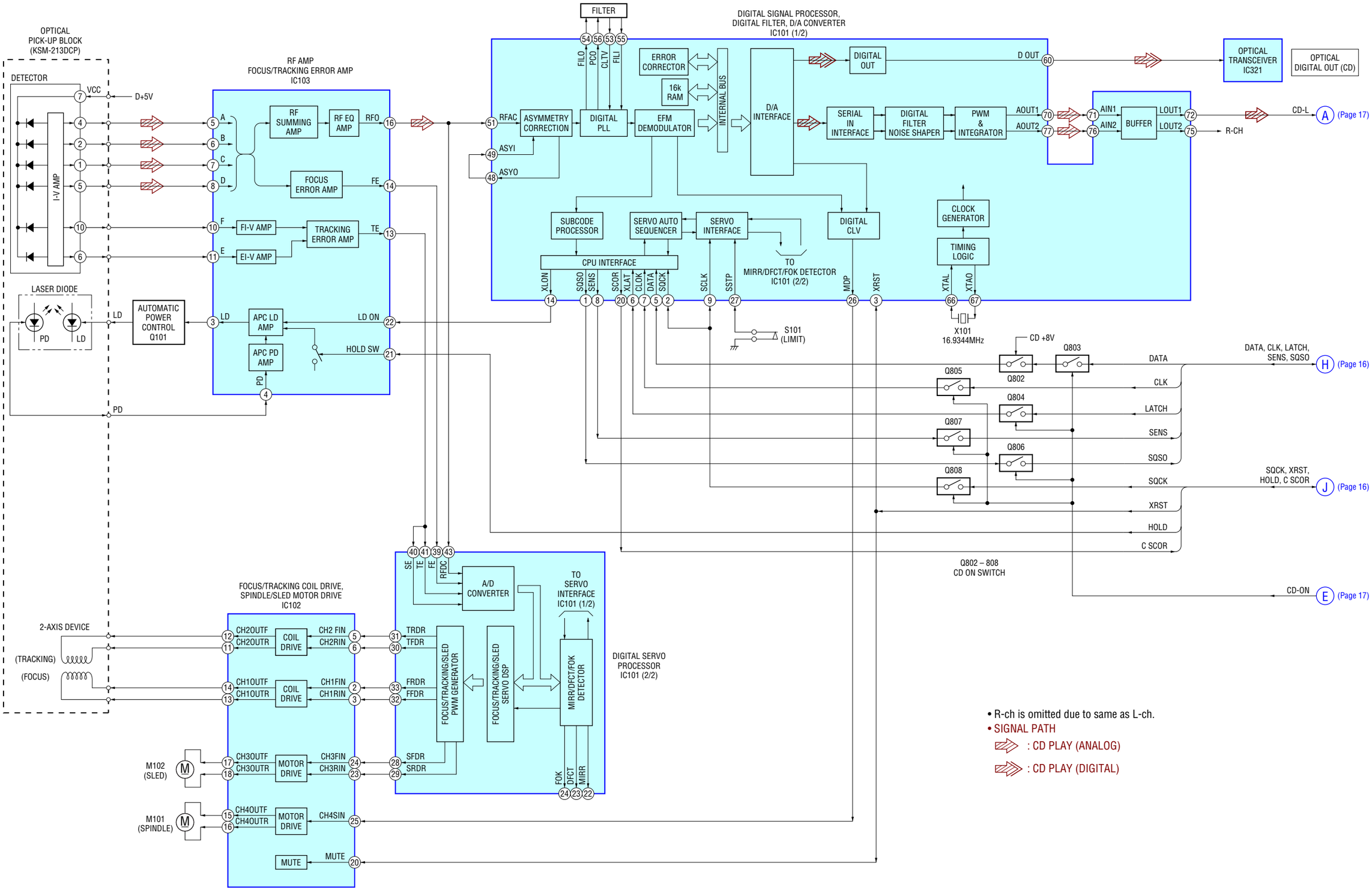
Checking Location:

– CD BOARD (Conductor Side) –



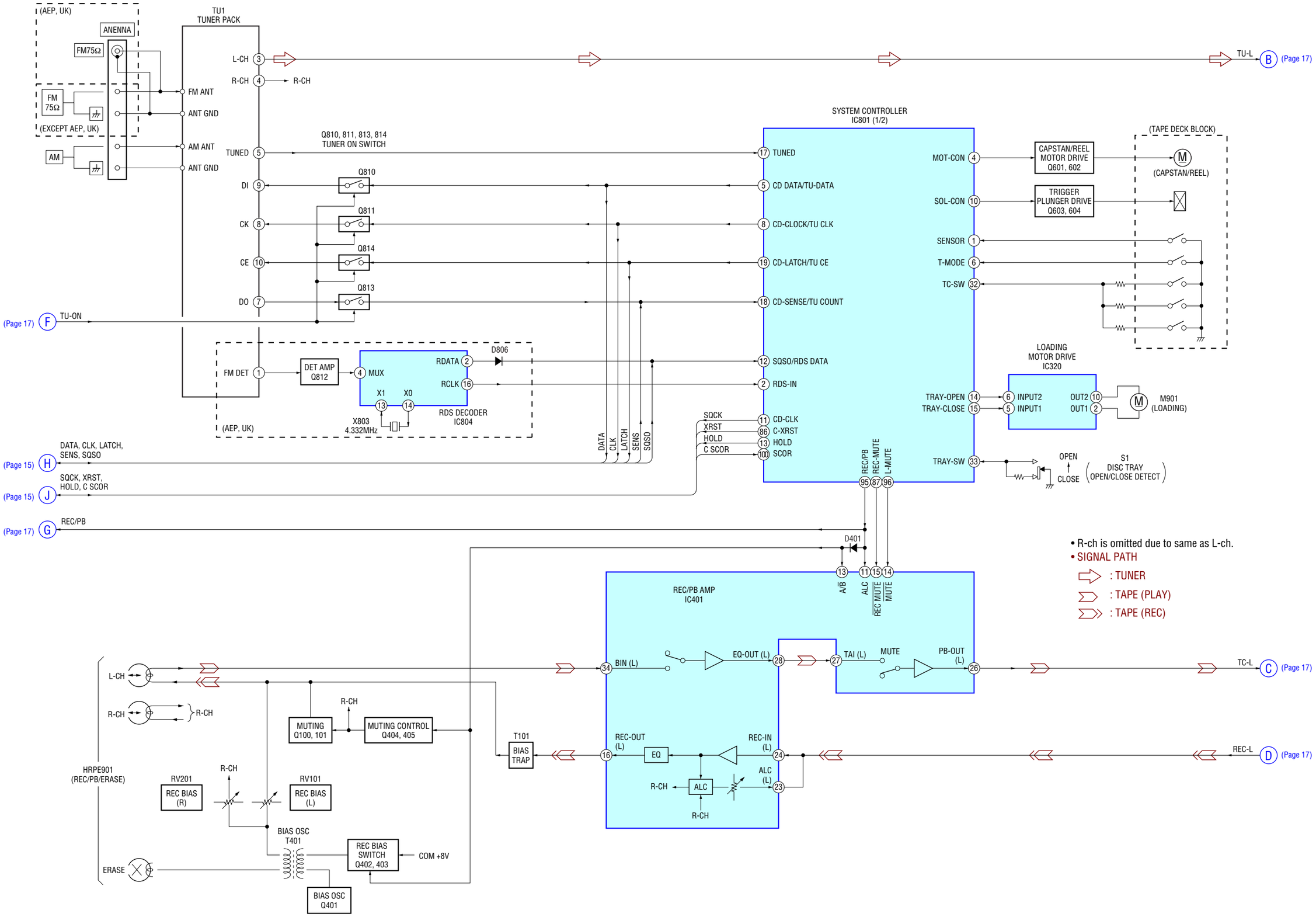
SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM – CD Section –

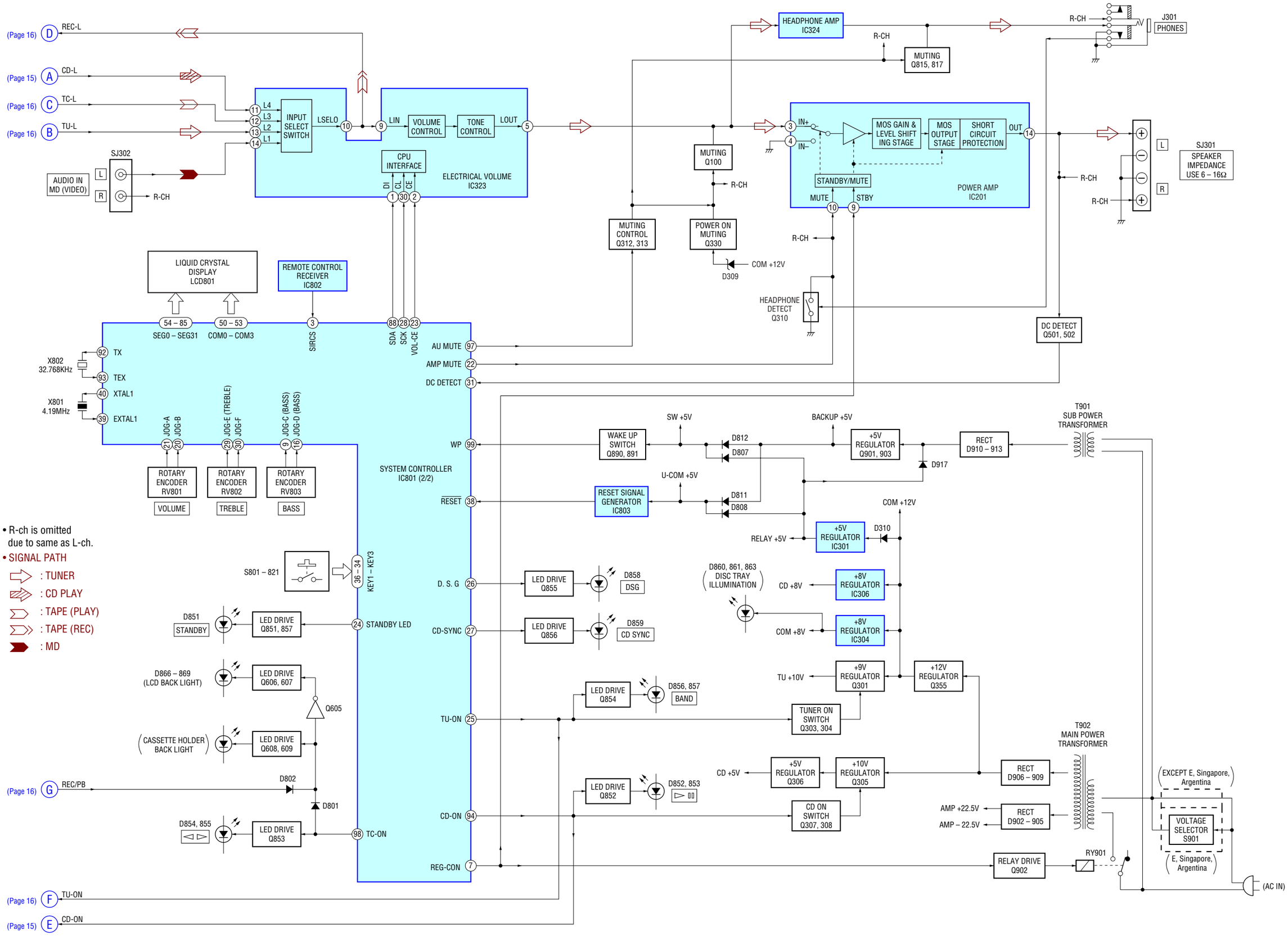


- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : CD PLAY (ANALOG)
  - : CD PLAY (DIGITAL)

6-2. BLOCK DIAGRAM – TUNER/TAPE DECK Section –



6-3. BLOCK DIAGRAM – MAIN Section –



6-4. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Boards:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- [ ]← : indicates side identified with part number.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

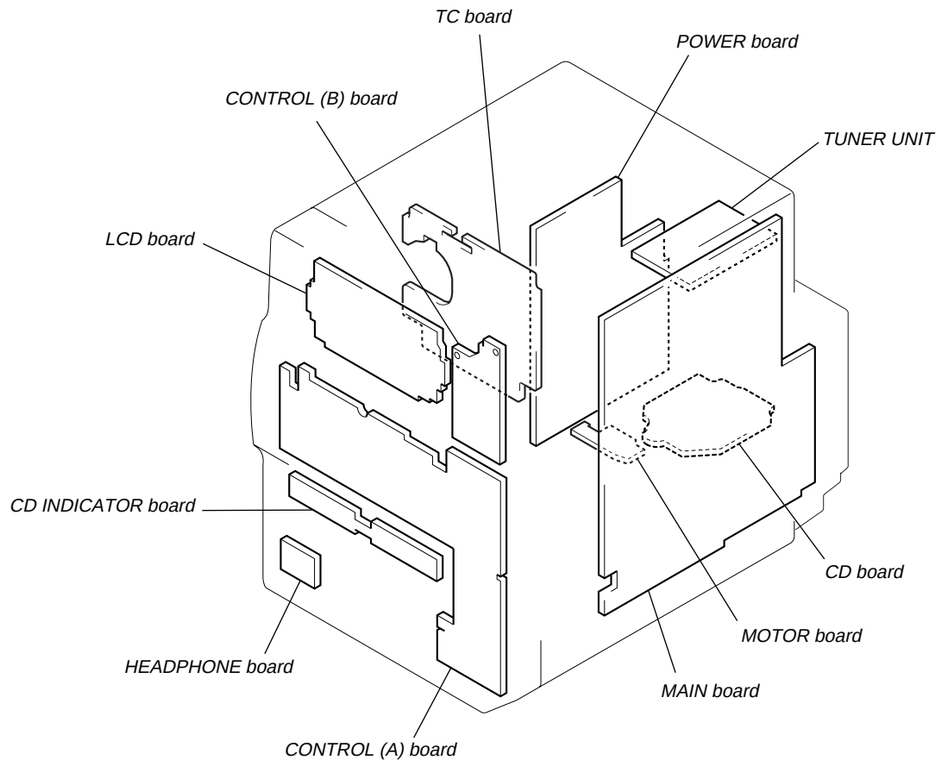
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : TUNER
  - ⇨ :TAPE (PLAY)
  - ⇨ : TAPE (REC)
  - ⇨ : MD
  - ⇨ : CD PLAY (ANALOG)
  - ⇨ : CD PLAY (DIGITAL OUT)
- Abbreviation
  - AR : Argentina model
  - AUS : Australian model
  - CND : Canadian model
  - KR : Korean model
  - MX : Mexican model
  - SP : Singapore model

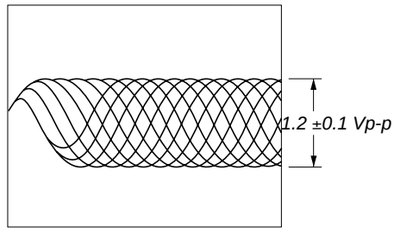
- **Circuit Boards Location**



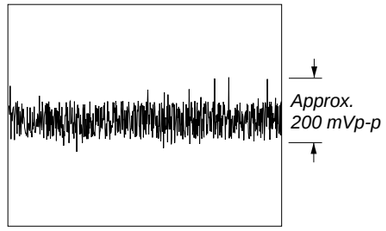
• **Waveforms**

– CD Board –

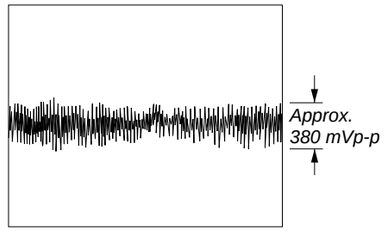
❶ IC103 ⑯ (RFO) (CD Play Mode)



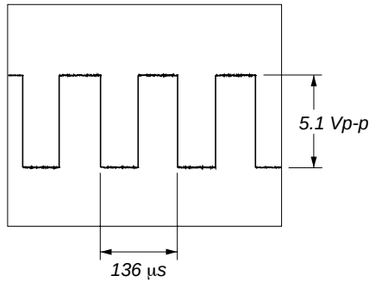
❷ IC103 ⑭ (FE) (CD Play Mode)



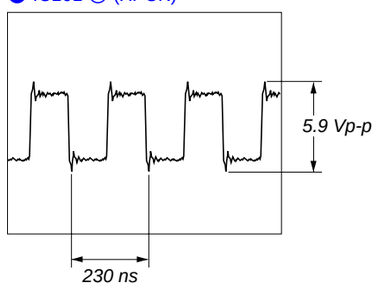
❸ IC103 ⑬ (TE) (CD Play Mode)



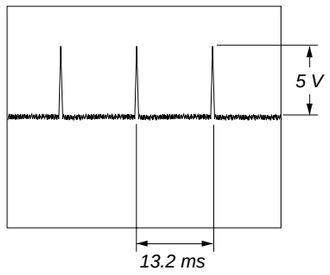
❹ IC101 ⑮ (WFCK)



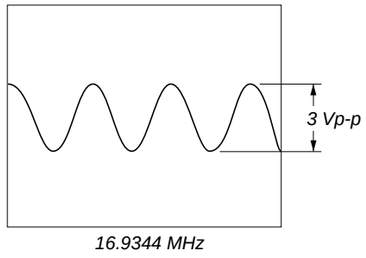
❺ IC101 ⑰ (XPCK)



❻ IC101 ⑳ (SCOR) (CD Play Mode)

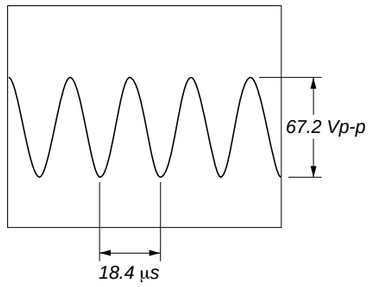


❼ IC101 ㊻ (XTAI)

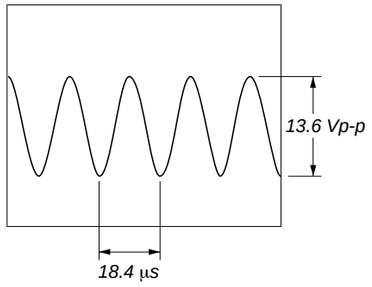


– TC Board –

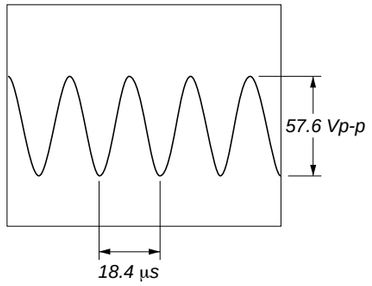
⓫ T401 (REC Mode)



⓬ Q401 Collector (REC Mode)

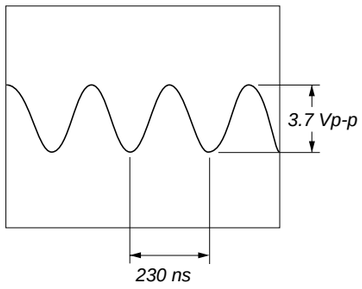


⓭ T101, 201 (REC Mode)

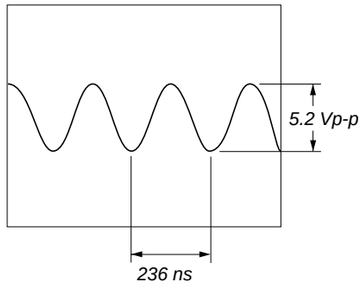


– MAIN Board –

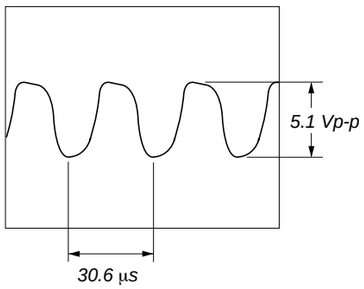
㉑ IC804 ⑭ (XO) (AEP, UK only)



㉒ IC801 ㊵ (XTAL1)



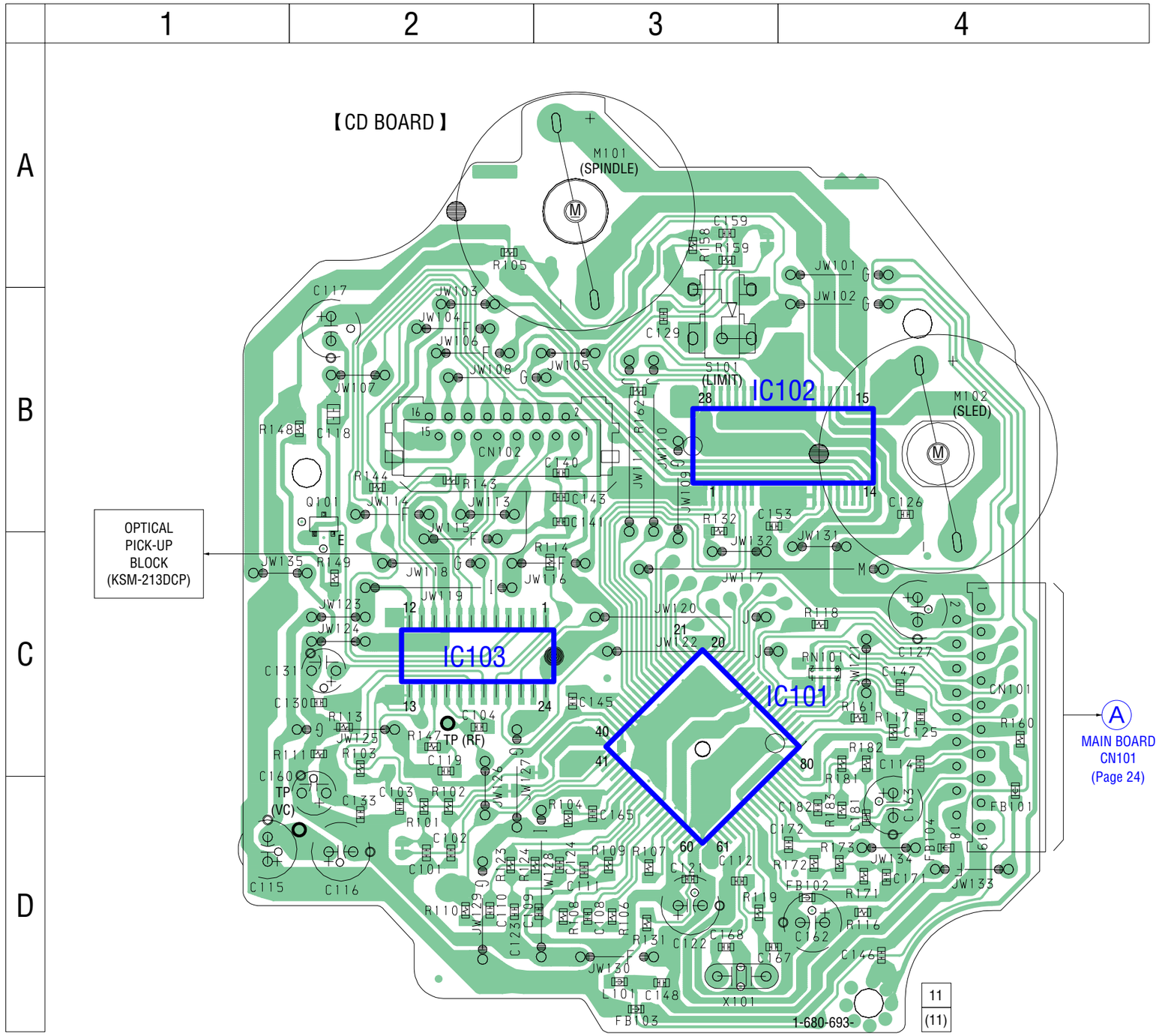
㉓ IC801 ㉜ (TX)



6-5. PRINTED WIRING BOARD – CD Section – • See page 18 for Circuit Boards Location.

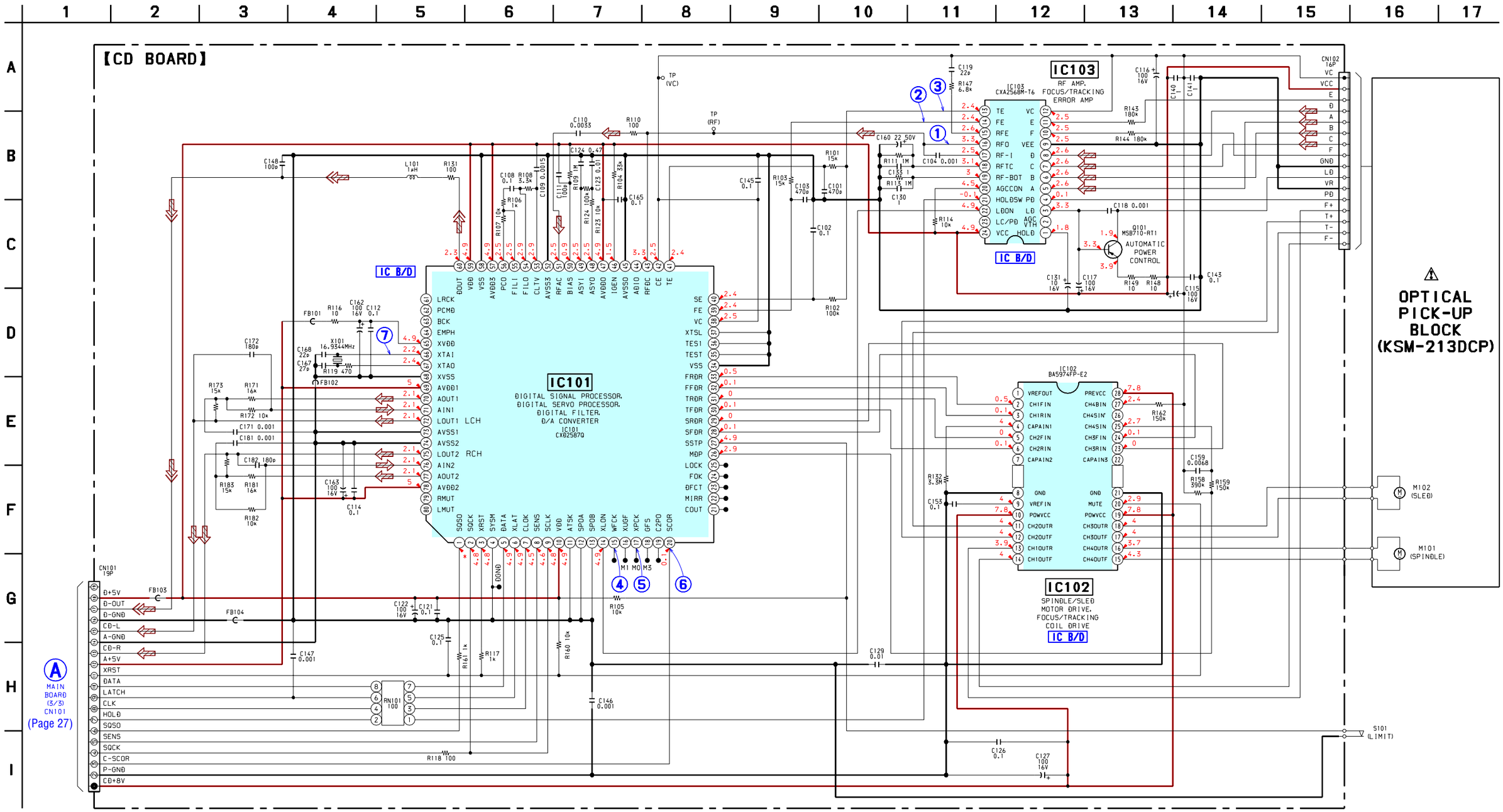
• **Semiconductor Location**

Ref. No.	Location
IC101	C-3
IC102	B-3
IC103	C-2
Q101	B-2



6-6. SCHEMATIC DIAGRAM – CD Section –

• See page 19 for Waveforms. • See page 32 for IC Block Diagrams.



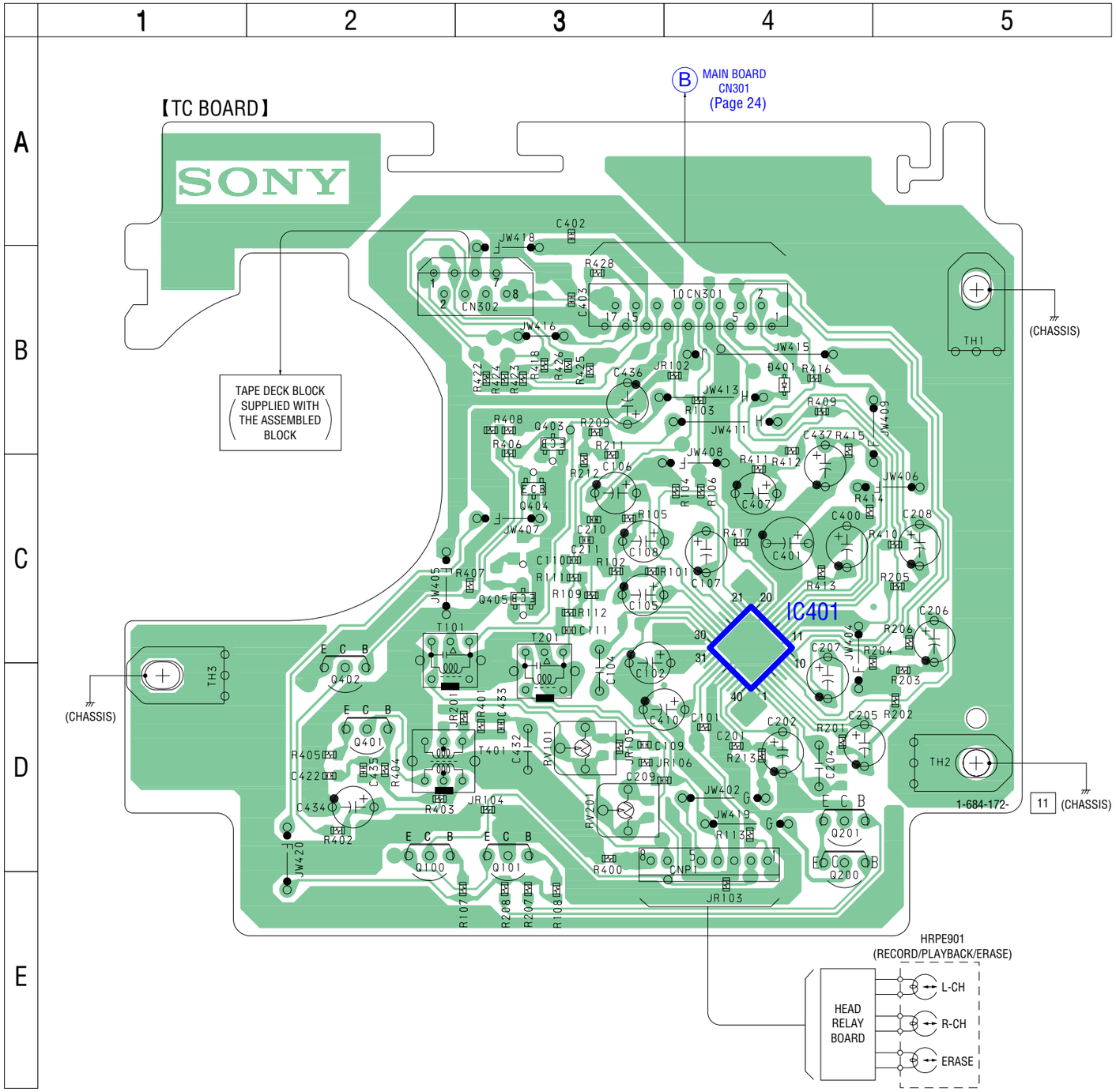
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD PLAY
  * : Impossible to measure

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

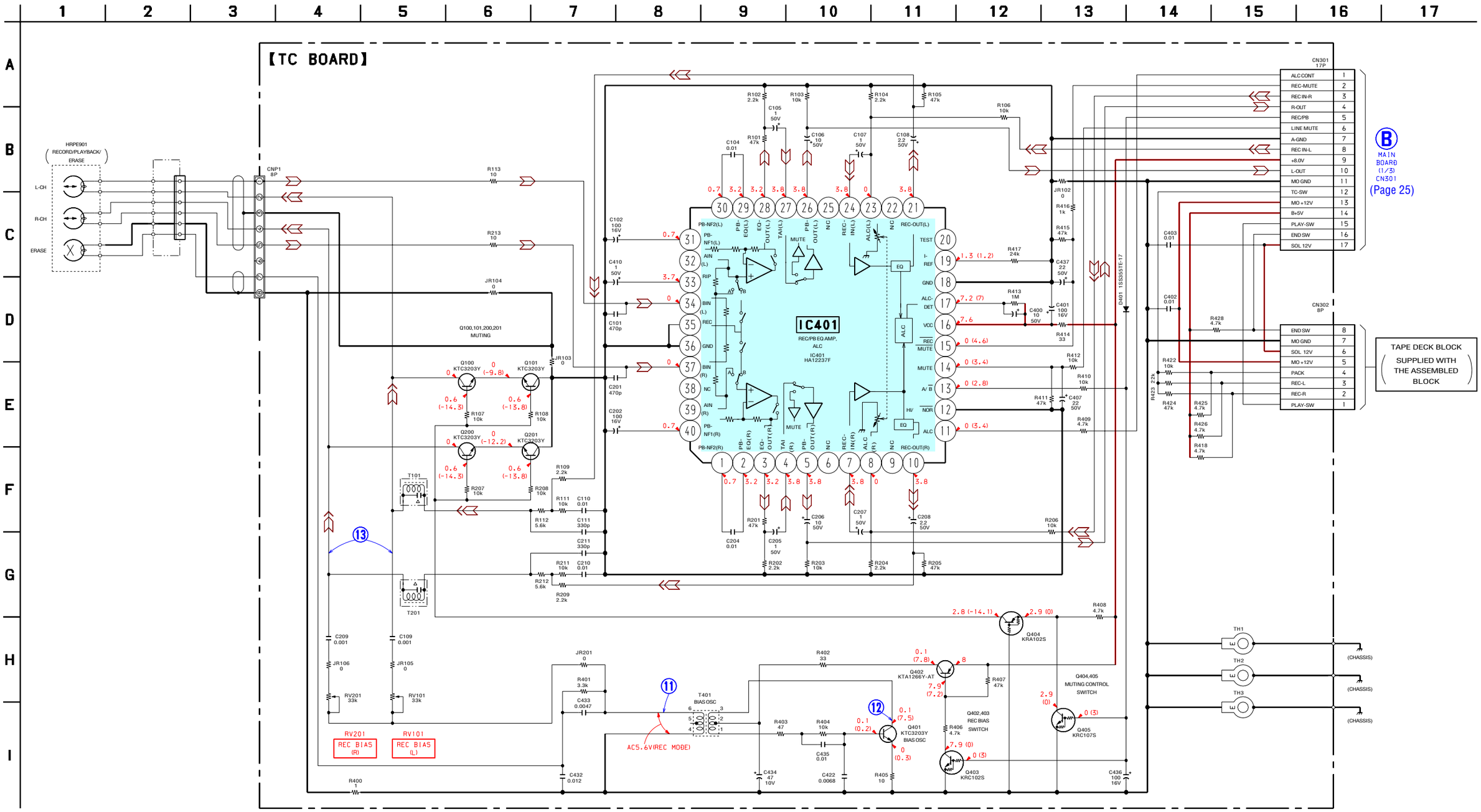
6-7. PRINTED WIRING BOARD – TAPE DECK Section – • See page 18 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D401	B-4
IC401	C-4
Q100	D-2
Q101	D-3
Q200	D-4
Q201	D-4
Q401	D-2
Q402	D-2
Q403	B-3
Q404	C-3
Q405	C-3



6-8. SCHEMATIC DIAGRAM – TAPE DECK Section – • See page 19 for Waveforms. • See page 32 for IC Block Diagram.

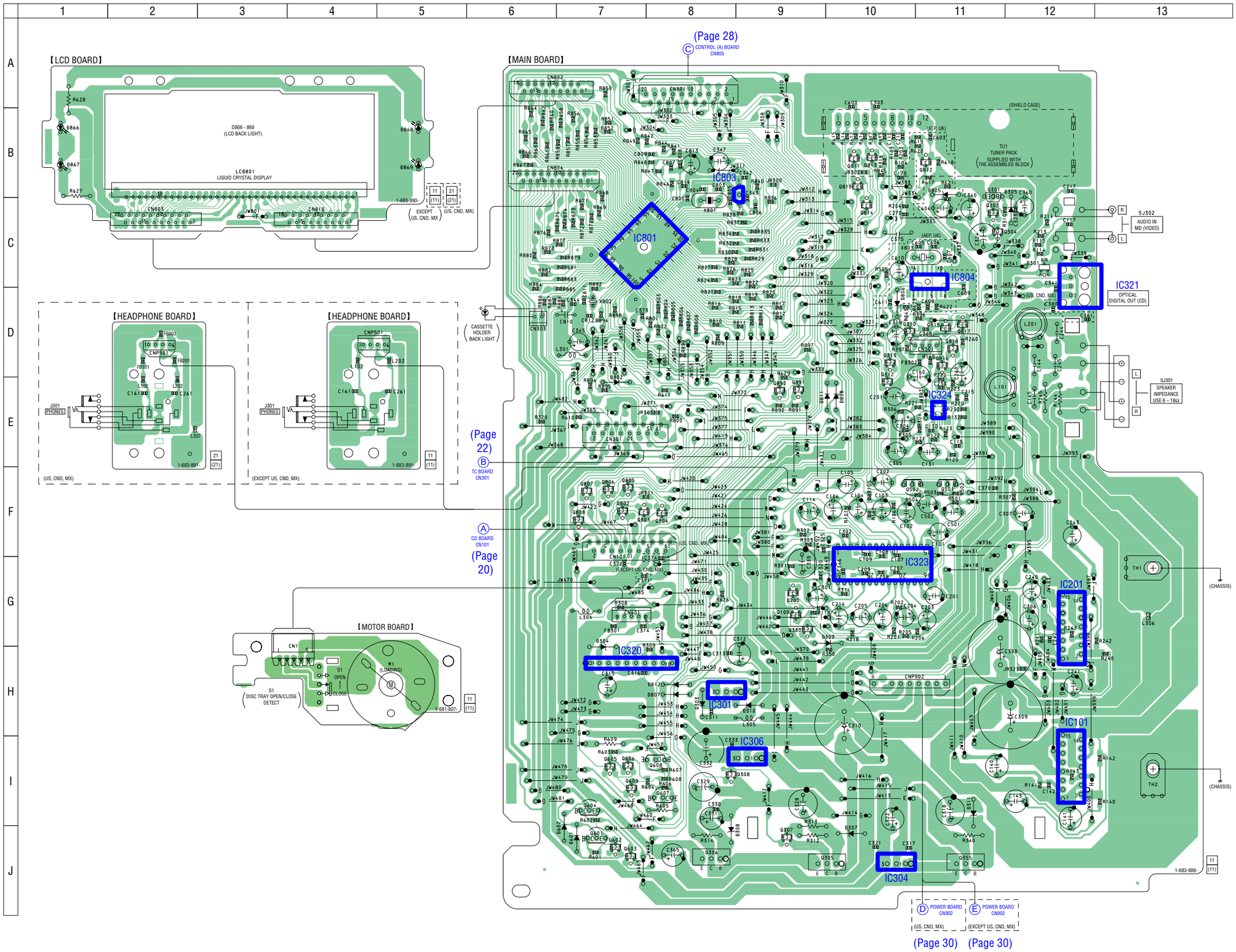


- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : TAPE PLAY
  ( ) : TAPE REC

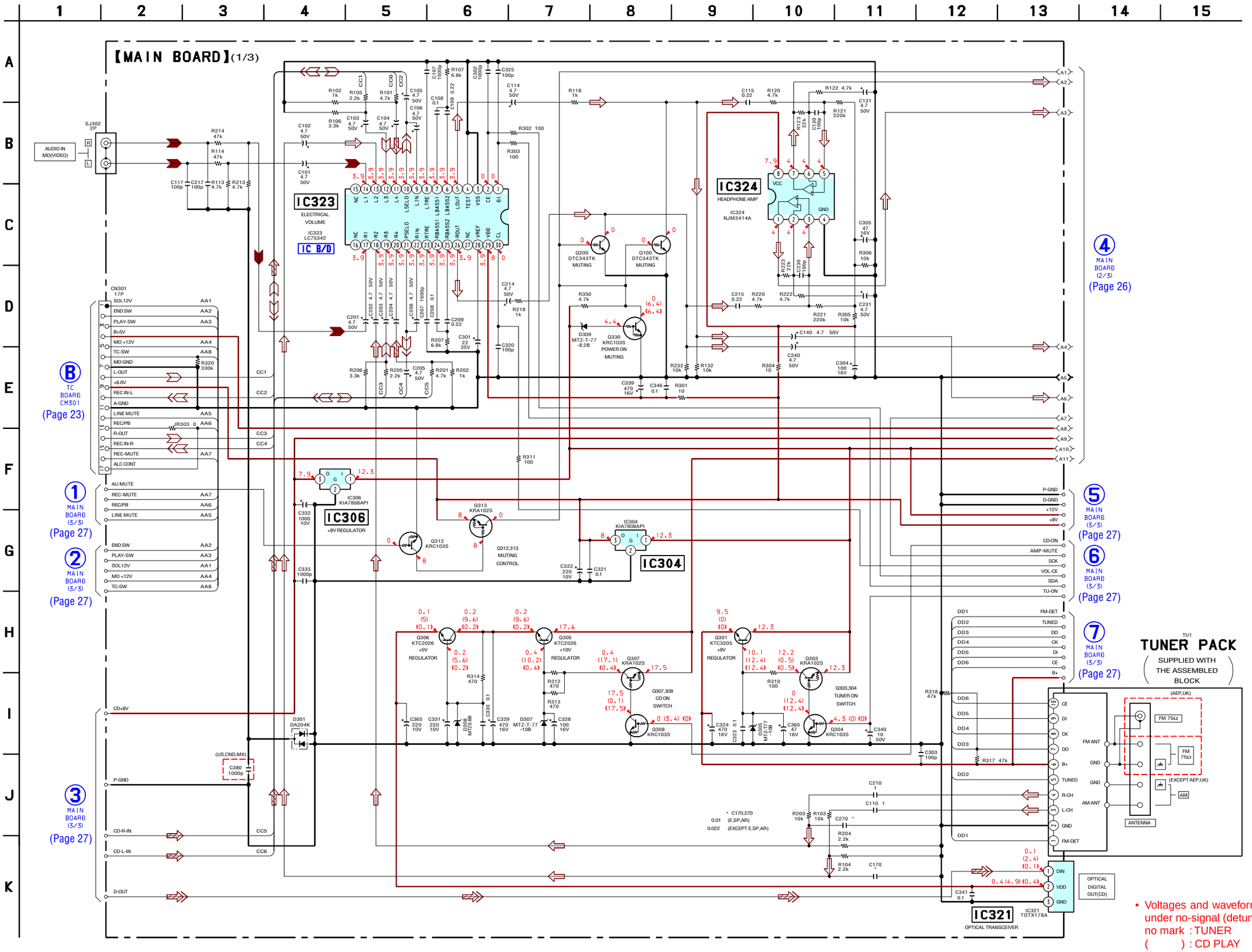
6-9. PRINTED WIRING BOARDS – MAIN Section – • See page 18 for Circuit Boards Location.

- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D301	C-12	Q303	C-11
D303	H-8	Q304	C-11
D304	G-7	Q305	J-10
D305	C-12	Q306	J-8
D307	J-10	Q307	J-9
D308	J-8	Q308	I-8
D309	G-10	Q310	D-10
D310	H-9	Q312	E-10
D311	I-11	Q313	D-10
D601	J-7	Q330	G-9
D602	J-7	Q355	J-11
D801	D-8	Q501	F-10
D802	E-7	Q502	F-10
D805	B-11	Q601	J-7
D806	D-10	Q602	J-7
D807	H-8	Q603	J-7
D808	E-10	Q604	I-7
D811	E-10	Q605	I-7
D812	H-8	Q606	I-7
D866	B-1	Q607	I-8
D867	B-1	Q608	I-8
D868	B-5	Q609	I-7
D869	B-5	Q802	F-7
		Q803	F-7
IC101	I-12	Q804	F-8
IC201	G-12	Q805	F-7
IC301	H-8	Q806	F-7
IC304	J-10	Q807	F-7
IC306	I-9	Q808	F-7
IC320	H-7	Q810	B-10
IC321	C-12	Q811	B-10
IC323	G-10	Q812	B-11
IC324	E-11	Q813	B-10
IC801	C-7	Q814	C-10
IC803	B-9	Q815	D-11
IC804	C-11	Q816	D-11
		Q817	D-11
Q100	G-9	Q818	D-11
Q200	G-9	Q890	E-9
Q301	B-11	Q891	E-9

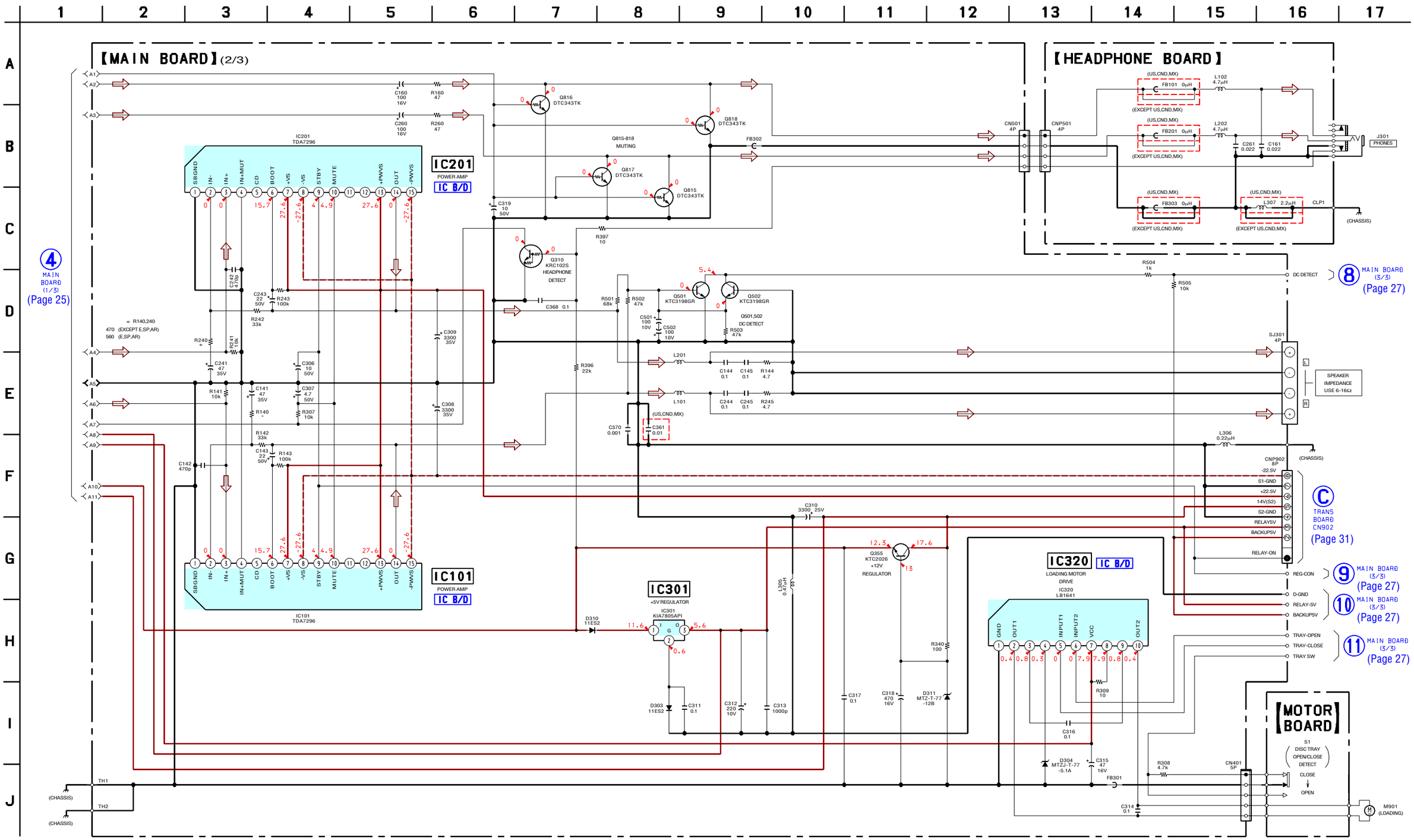


6-10. SCHEMATIC DIAGRAM – MAIN Section (1/3) – • See page 32 for IC Block Diagram.



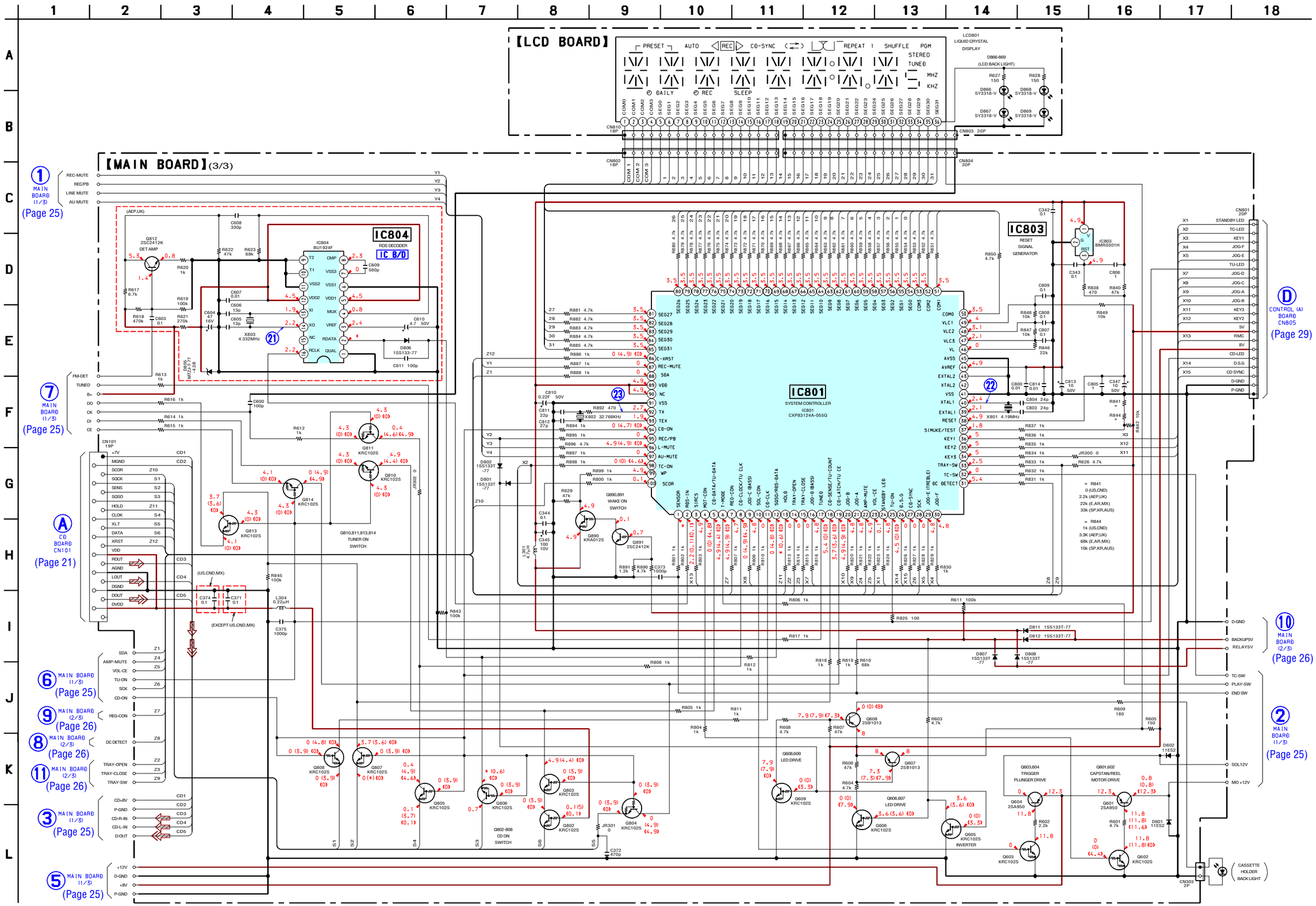
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER
  ( ) : CD PLAY
  ⟨⟨ ⟩⟩ : TAPE PLAY

6-11. SCHEMATIC DIAGRAM – MAIN Section (2/3) – • See page 32 for IC Block Diagrams.



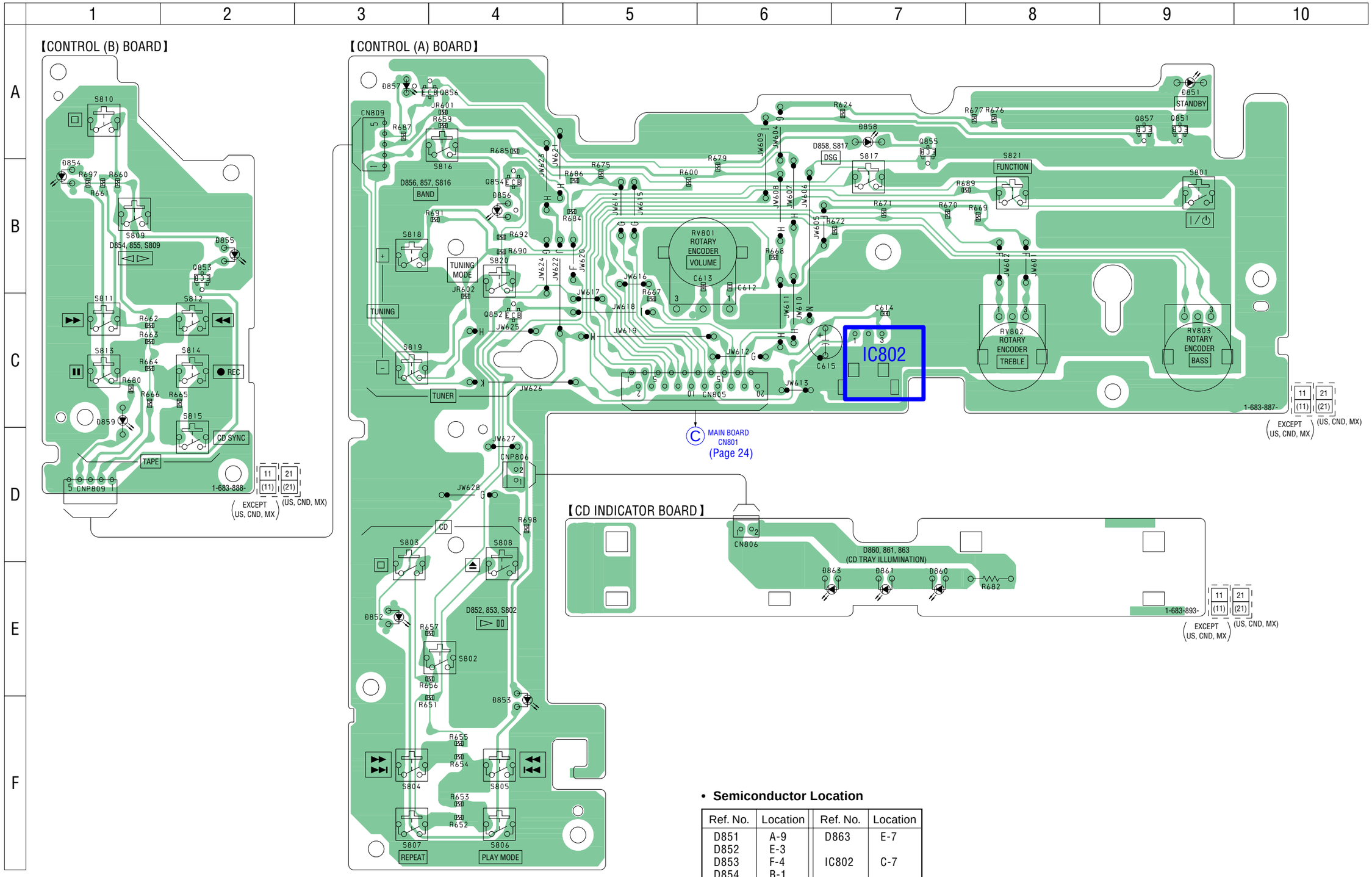
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER
  ( ) : CD PLAY
  ⟨⟨ ⟩⟩ : TAPE PLAY

6-12. SCHEMATIC DIAGRAM – MAIN Section (3/3) – • See page 19 for Waveforms. • See page 32 for IC Block Diagram.



- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER
  ( ) : CD PLAY
  ⟨⟨ ⟩⟩ : TAPE PLAY
  * : Impossible to measure

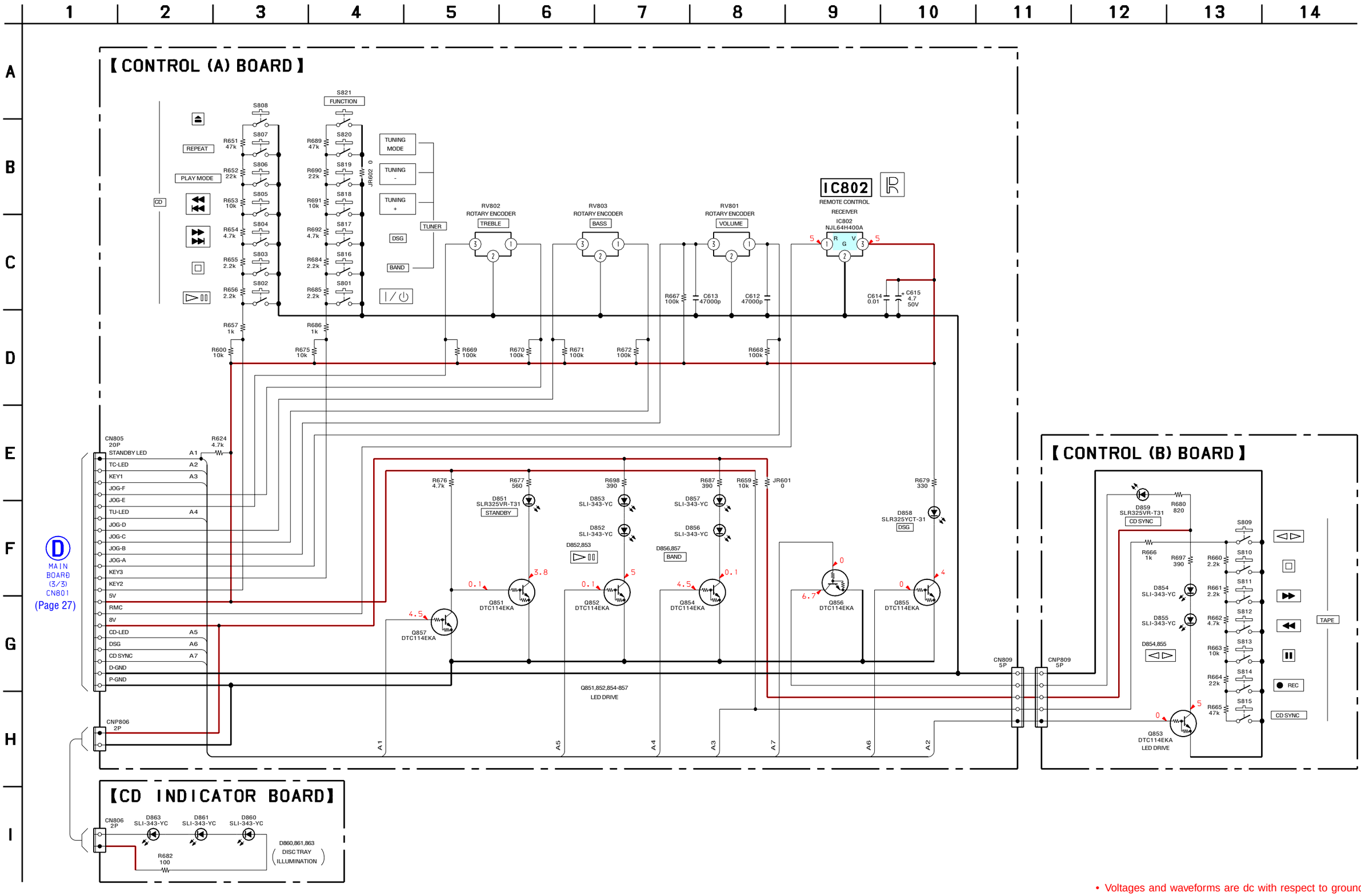
6-13. PRINTED WIRING BOARDS – CONTROL Section – • See page 18 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D851	A-9	D863	E-7
D852	E-3		
D853	F-4	IC802	C-7
D854	B-1		
D855	B-2	Q851	A-9
D856	B-4	Q852	C-4
D857	A-4	Q853	B-2
D858	A-7	Q854	B-4
D859	C-1	Q855	A-7
D860	E-7	Q856	A-4
D861	E-7	Q857	A-9

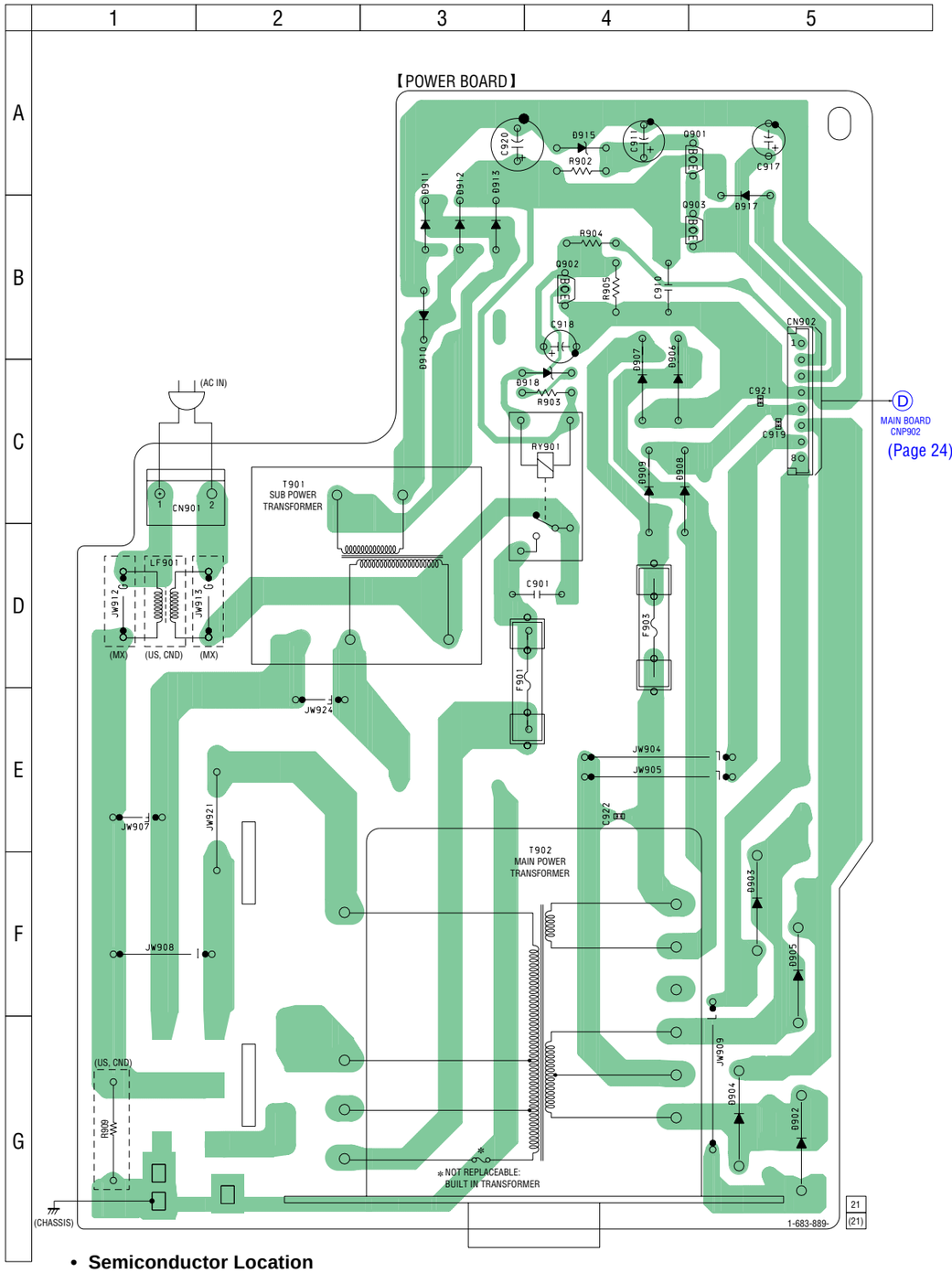
6-14. SCHEMATIC DIAGRAM – CONTROL Section –



- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER

6-15. PRINTED WIRING BOARD – POWER Section (US, Canadian, Mexican models) –

• See page 18 for Circuit Boards Location.

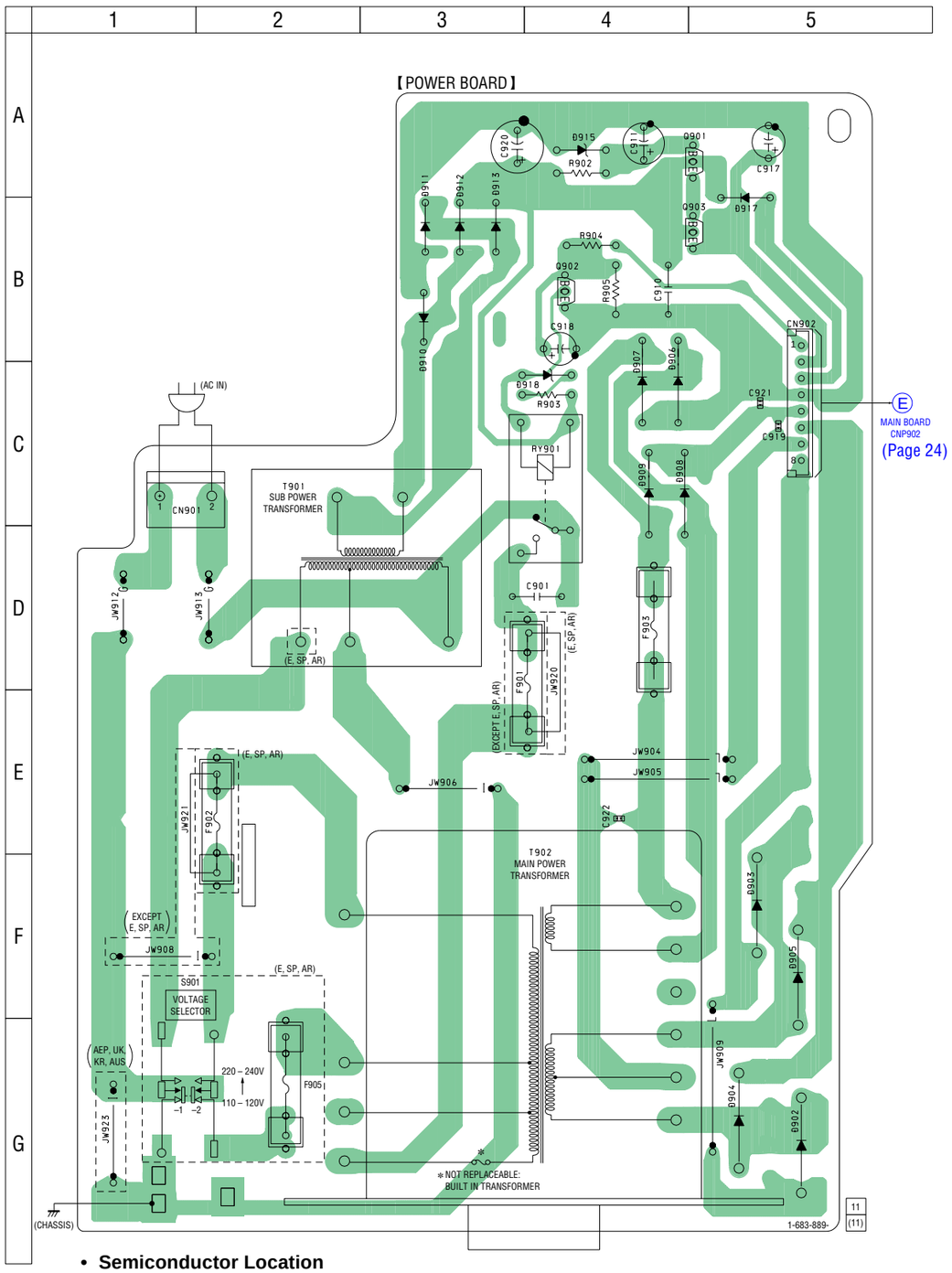


- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D902	G-5	D912	B-3
D903	F-5	D913	B-3
D904	G-5	D915	A-4
D905	F-5	D917	B-5
D906	C-4	D918	C-4
D907	C-4		
D908	C-4	Q901	A-5
D909	C-4	Q902	B-4
D910	B-3	Q903	B-5
D911	B-3		

6-16. PRINTED WIRING BOARD – POWER Section (Except US, Canadian, Mexican models) –

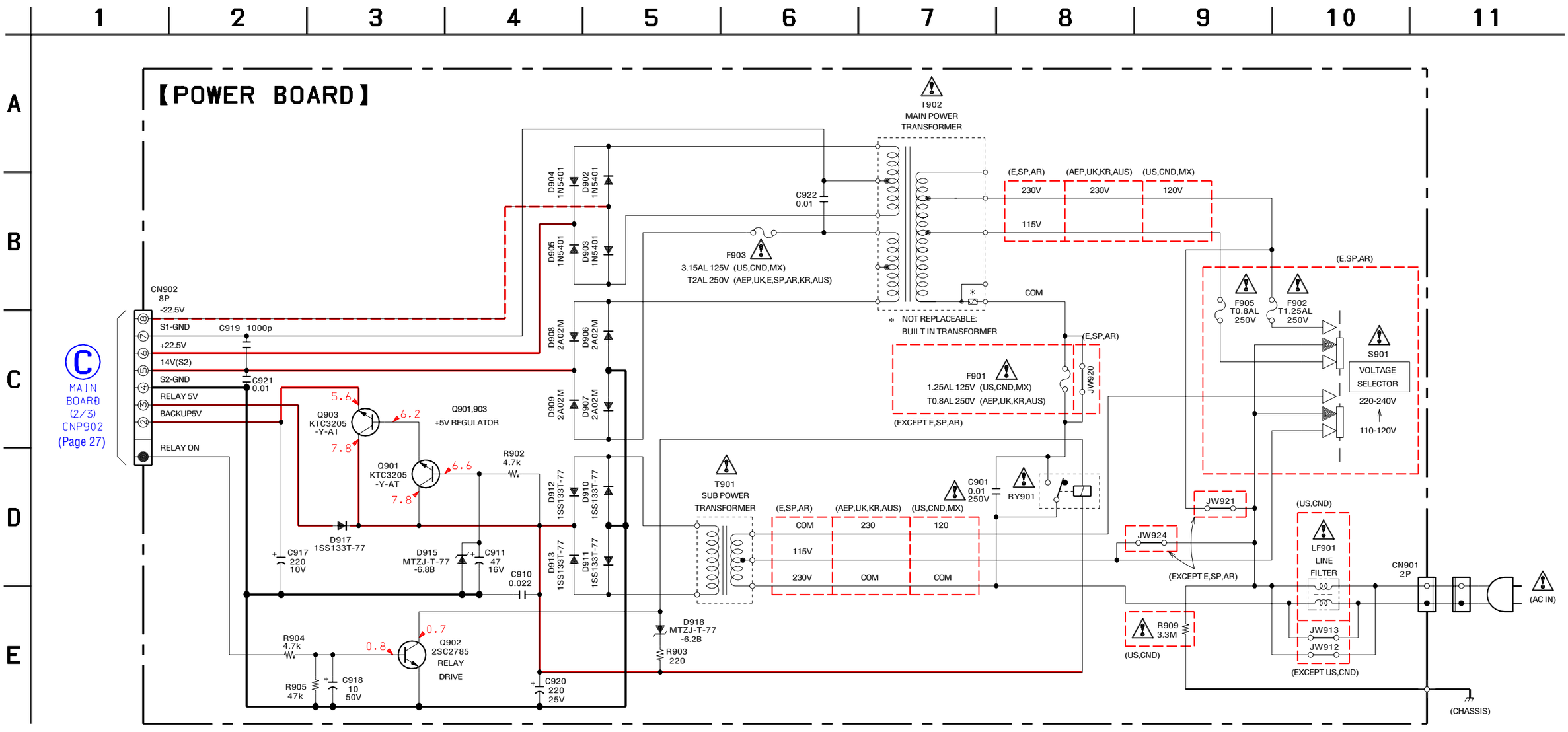
• See page 18 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D902	G-5	D912	B-3
D903	F-5	D913	B-3
D904	G-5	D915	A-4
D905	F-5	D917	B-5
D906	C-4	D918	C-4
D907	C-4		
D908	C-4	Q901	A-5
D909	C-4	Q902	B-4
D910	B-3	Q903	B-5
D911	B-3		

6-17. SCHEMATIC DIAGRAM – POWER Section –



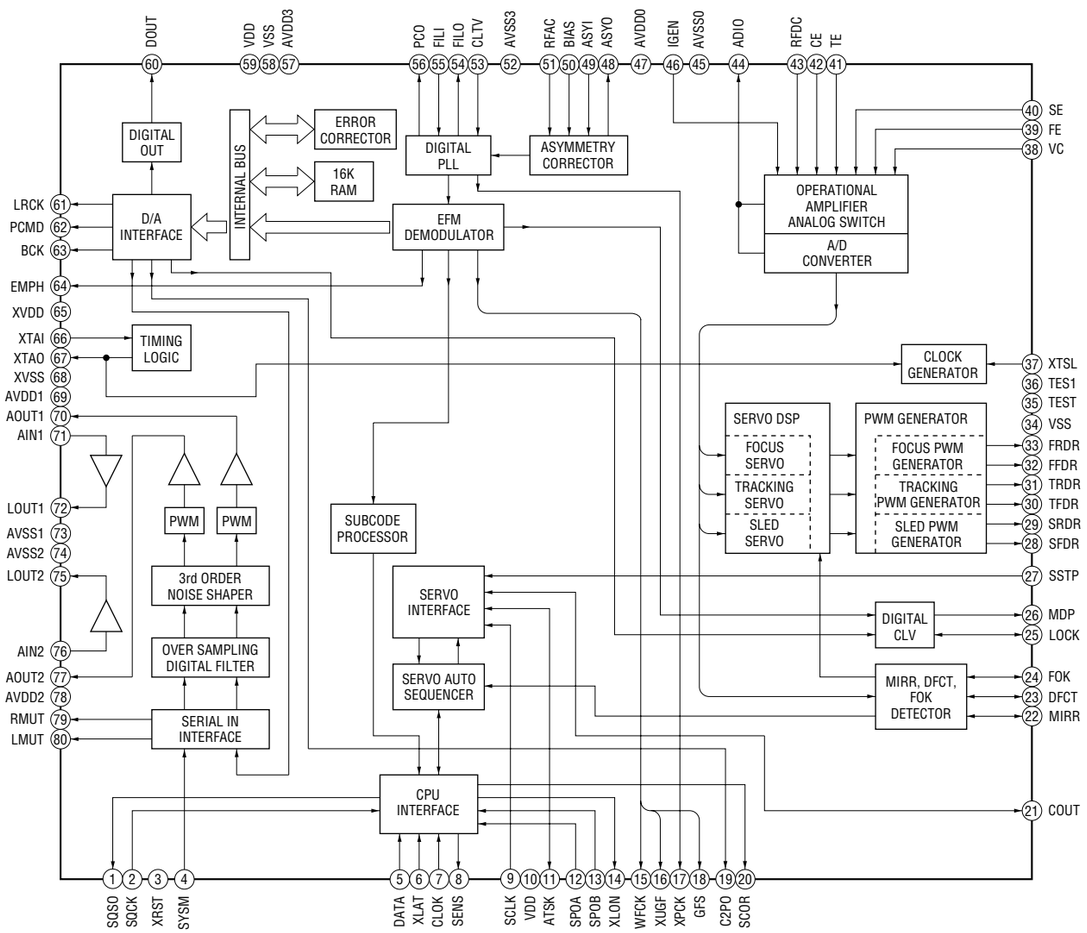
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

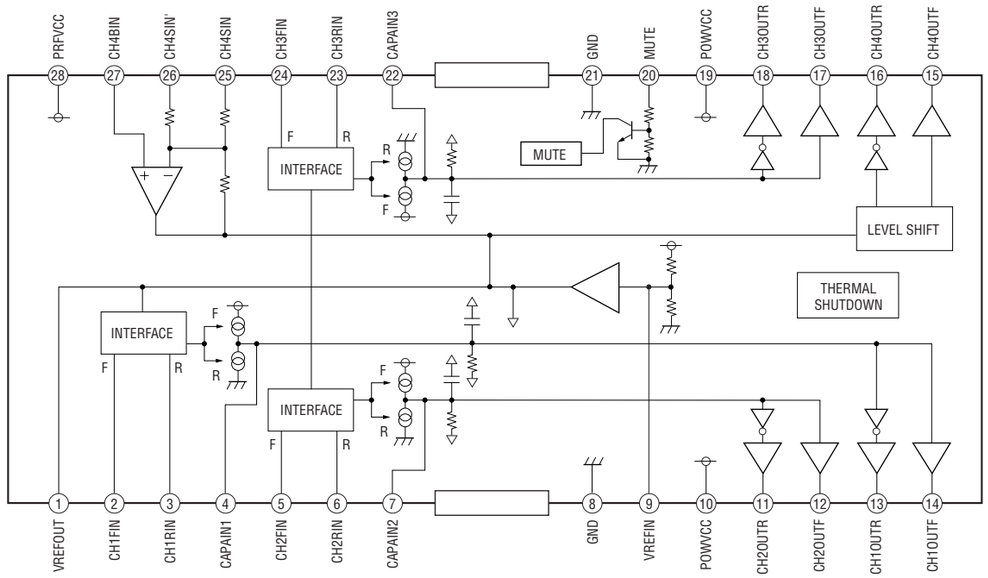
- **IC Block Diagrams**

– CD Board –

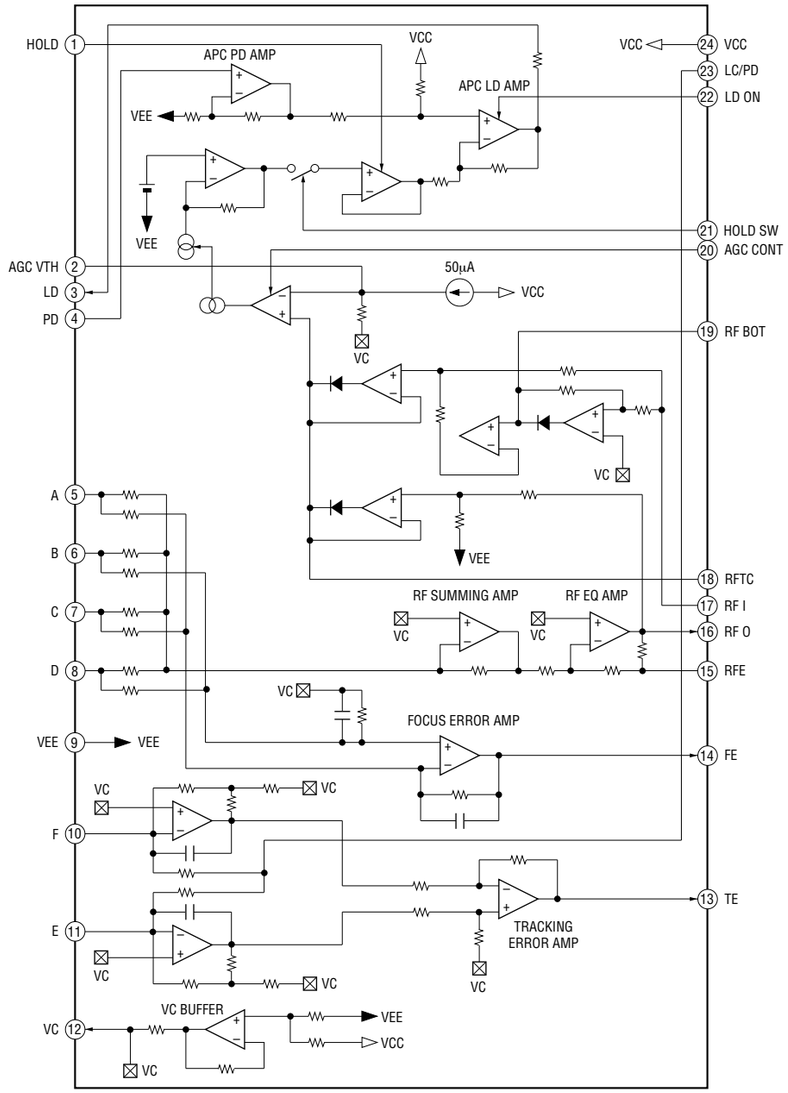
IC101 CXD2587Q



IC102 BA5974FP-E2

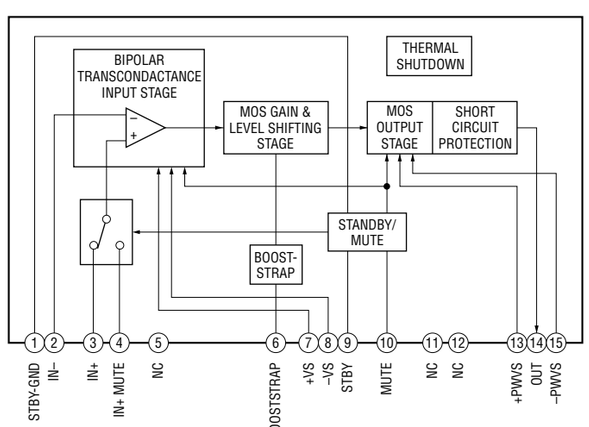


IC103 CXA2568M-T6

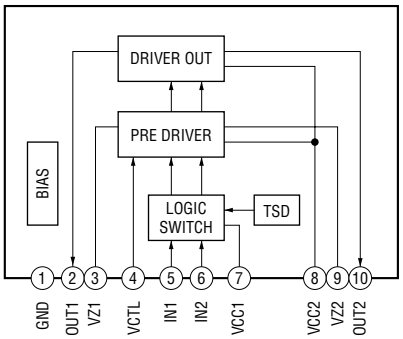


– MAIN Board –

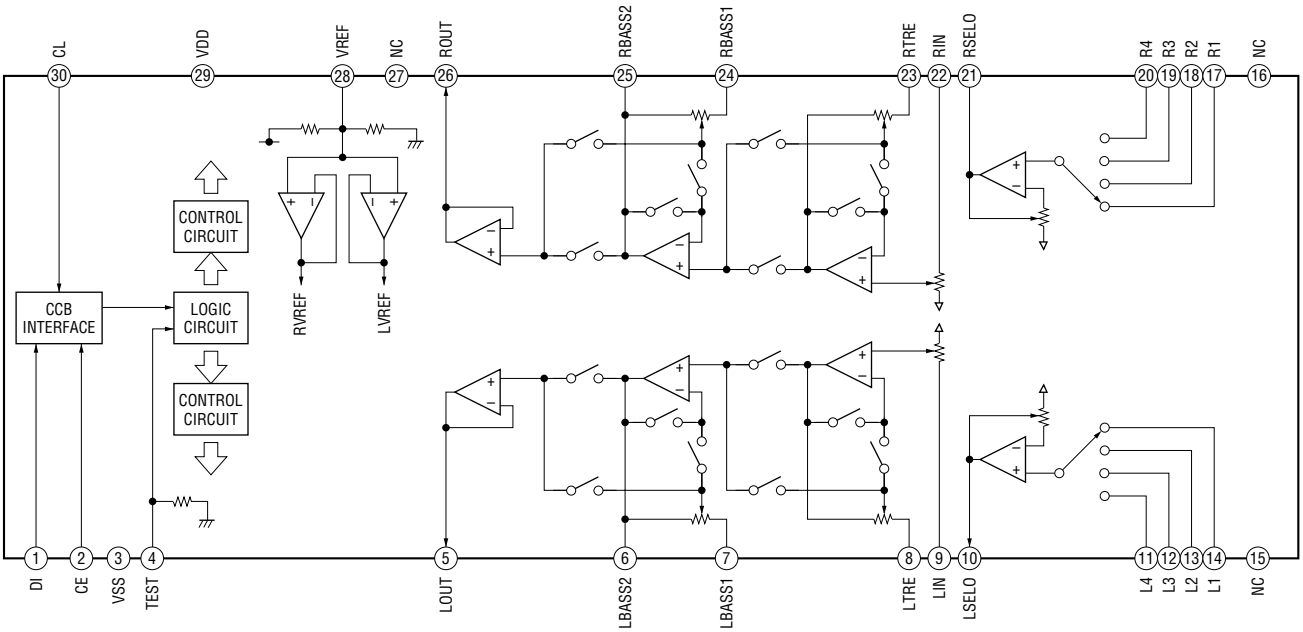
IC101, 201 TDA7296



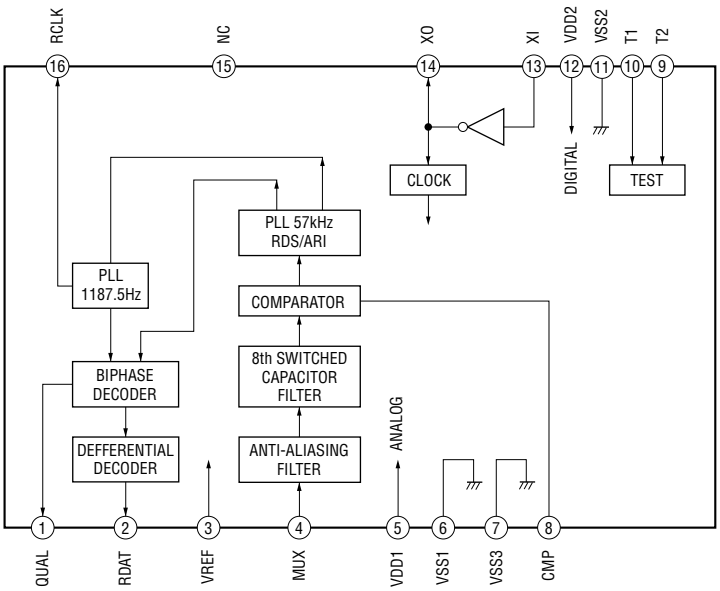
IC320 LB1641



IC323 LC75342


CL VDD VREF NC ROUT RBASS2 RBASS1 RTRE RIN RSELO R4 R3 R2 R1 NC
30 29 28 27 26 25 24 23 22 21 20 19 18 17 16
CONTROL CIRCUIT
CCB INTERFACE
LOGIC CIRCUIT
CONTROL CIRCUIT
RVREF
LVREF
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
DI CE VSS TEST LOUT LBASS2 LBASS1 LTRE LIN LSELO L4 L3 L2 L1 NC

IC804 BU1924F-E2



6-18. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC801 CXP83124A-055Q (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	SENSOR	I	Tape end detect sensor input terminal "H": input when the tape end detected
2	RDS-IN	I	Serial data reading clock signal input from the RDS decoder Used for the AEP, UK models (Except AEP, UK models: not used)
3	SIRCS	I	Remote control signal input from the remote control receiver
4	MOT-CON	O	Capstan/reel motor on/off control signal output terminal "H": motor on
5	CD-DATA/ TU-DATA	O	Serial data output to the CXD2587Q (at CD function) PLL serial data output to the tuner pack (at tuner function)
6	T-MODE	I	Head position detect switch input terminal "L": forward direction, "H": reverse direction
7	REG-CON	O	Main system power supply on/off contorl signal output terminal "H": power on
8	CD-CLK/TU- CLK	O	Serial data transfer clock signal output to the CXD2587Q (at CD function) PLL serial data transfer clock signal output to the tuner pack (at tuner funcion)
9	JOG-C (BASS)	I	Jog dial pulse input from the rotary encoder (BASS) (C phase input)
10	SOL-CON	O	Trigger plunger on/off control signal output terminal "H": plunger on
11	CD-CLK	O	Subcode Q data reading clock signal output ti the CXD2587Q (at CD function)
12	SQSO/ RDS-DATA	I	Subcode Q data input from the CXD2587Q (at CD function) RDS serial data input from the RDS decoder (at tuner function) Used for the AEP, UK models (Except AEP, UK models: not used)
13	HOLD	O	Automatic power control hold signal output to the RF amplifier
14	TRAY-OPEN	O	Motor drive siganl output to the loading motor drive "H": active *1
15	TRAY-CLOSE	O	Motor drive signal output to the loading motor drive "H": active *1
16	JOG-D (BASS)	I	Jog dial pulse input from the rotary encoder (BASS) (D phase input)
17	TUNED	I	Tuning detection signal input from the tuner pack (at tuner function)
18	CD-SENSE/ TU COUNT	I	Internal status (SENSE) input from the CXD2587Q (at CD function) PLL count data input from the tuner pack (at tuner function)
19	CD-LATCH/ TU CE	O	Serial data latch pulse output to the CXD2587Q (at CD function) PLL serial chip enable signal output to the tuner pack (at tuner function)
20	JOG-B	I	Jog dial pulse input from the rotary encoder (VOLUME) (B phase input)
21	JOG-A	I	Jog dial pulse input from the rotary encoder (VOLUME) (A phase input)
22	AMP-MUTE	O	Muting on/off control signal output to the power amplifier "H": muting on
23	VOL-CE	O	Chip enable signal output for the electrical volume
24	STANDBY LED	I	LED drive signal output of the STANDBY indicator (D856) "H": LED on
25	TU-ON	O	Power supply on/off control signal output of the tuner section LED drive signal output of the BAND indicator "H": tuner power on (LED on)
26	D. S. G.	O	LED drive signal output of the DSG (Dynamic Sound Generator) indicator "H": LED on
27	CD-SYNC	O	LED drive signal output of the CD SYNC indicator "H": LED on
28	SCK	O	Serial data transfer clock signal output to the electrical volume
29	JOG-E (TREBLE)	I	Jog dial pulse input from the rotary encoder (TREBLE) (E phase input)
30	JOG-F	I	Jog dial pulse input from the rotary encoder (TREBLE) (F phase input)
31	DC DETECT	I	Speaker DC output protect signal input terminal

*1 Loading motor control

Mode / Terminal	Stop	Table In	Table Out	Brake
TRAY-OPEN (pin ⑭)	"L"	"L"	"H"	"H"
TRAY-CLOSE (pin ⑮)	"L"	"H"	"L"	"H"

Pin No.	Pin Name	I/O	Description
32	TC-SW	I	Half detect (side A and B) switch and cassette in detect switch input terminal (A/D input)
33	TRAY-SW	I	Disc tray open/close detect switch input terminal (A/D input) "L": open position
34	KEY3	I	Key input terminal (A/D input)
35	KEY2	I	Key input terminal (A/D input)
36	KEY1	I	Key input terminal (A/D input)
37	SIMUKE/TEST	I	Destination setting terminal (A/D input)
38	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator "L": reset For several hundreds msec. after the power supply rises, "L": is input, then it changes to "H"
39	EXTAL1	I	Main system clock input terminal (4.19MHz)
40	XTAL1	O	Main system clock output terminal (4.19MHz)
41	VSS	—	Ground terminal
42	XTAL2	O	Sub system clock output terminal Not used
43	EXTAL2	I	Sub system clock input terminal Not used
44	AVREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
45	AVSS	—	Ground terminal (for A/D conversion)
46	VL	O	Not used
47 to 49	VLC3 to VLC1	—	Power supply terminal for the liquid crystal display bias
50 to 53	COM0 to COM3	O	Common drive signal output to the liquid crystal display
54 to 85	SEG0 to SEG31	O	Segment drive signal output to the liquid crystal display
86	C-XRST	O	Reset signal output to the CXD2587Q and BA5974FP (at CD function)
87	REC-MUTE	O	Recording muting on/off selection signal output to the tape deck section "H": muting on, "L": muting of
88	SDA	O	Serial data output to the electrical volume
89	VDD	—	Power supply terminal (+5V)
90	NC	—	Not used (open)
91	VSS	—	Ground terminal
92	TX	O	Sub system clock output terminal (32.768kHz)
93	TEX	I	Sub system clock input terminal (32.768kHz)
94	CD-ON	O	Power supply on/off control signal output of the CD section LED drive signal output of the CD ▶II indicator "H": CD power on (LED on)
95	REC/PB	O	Recording/playback selection signal output to the tape deck section "L": playback mode, "H": recording mode
96	L-MUTE	O	Line muting on/off selection signal output to the tape deck section "H": muting on, "L": muting off
97	AU MUTE	O	muting on/off control signal output terminal "H": muting on
98	TC-ON	O	Power supply on/off control signal output of the cassette holder back light LED drive signal output of the TAPE ◀ ▶ indicator "H": back light on (LED on)
99	WP	I	Wakeup control signal input terminal
100	SCOR	I	Subcode sync (S0+S1) detection signal input from the CXD2587Q (at CD function)

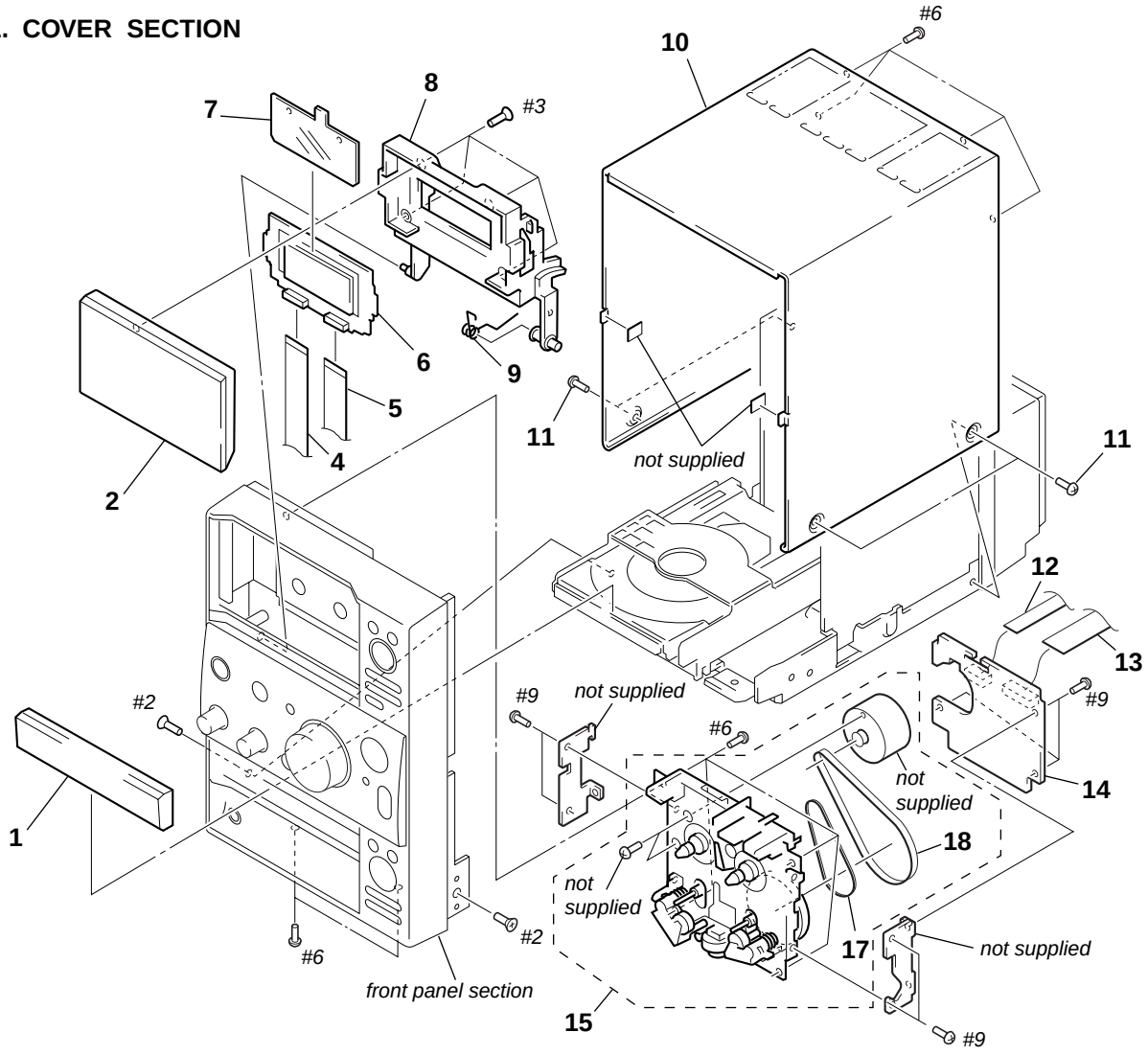
SECTION 7
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Abbreviation
  AR : Argentina model
  AUS : Australian model
  CND : Canadian model
  KR : Korean model
  MX : Mexican model
  SP : Singapore model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Accessories are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

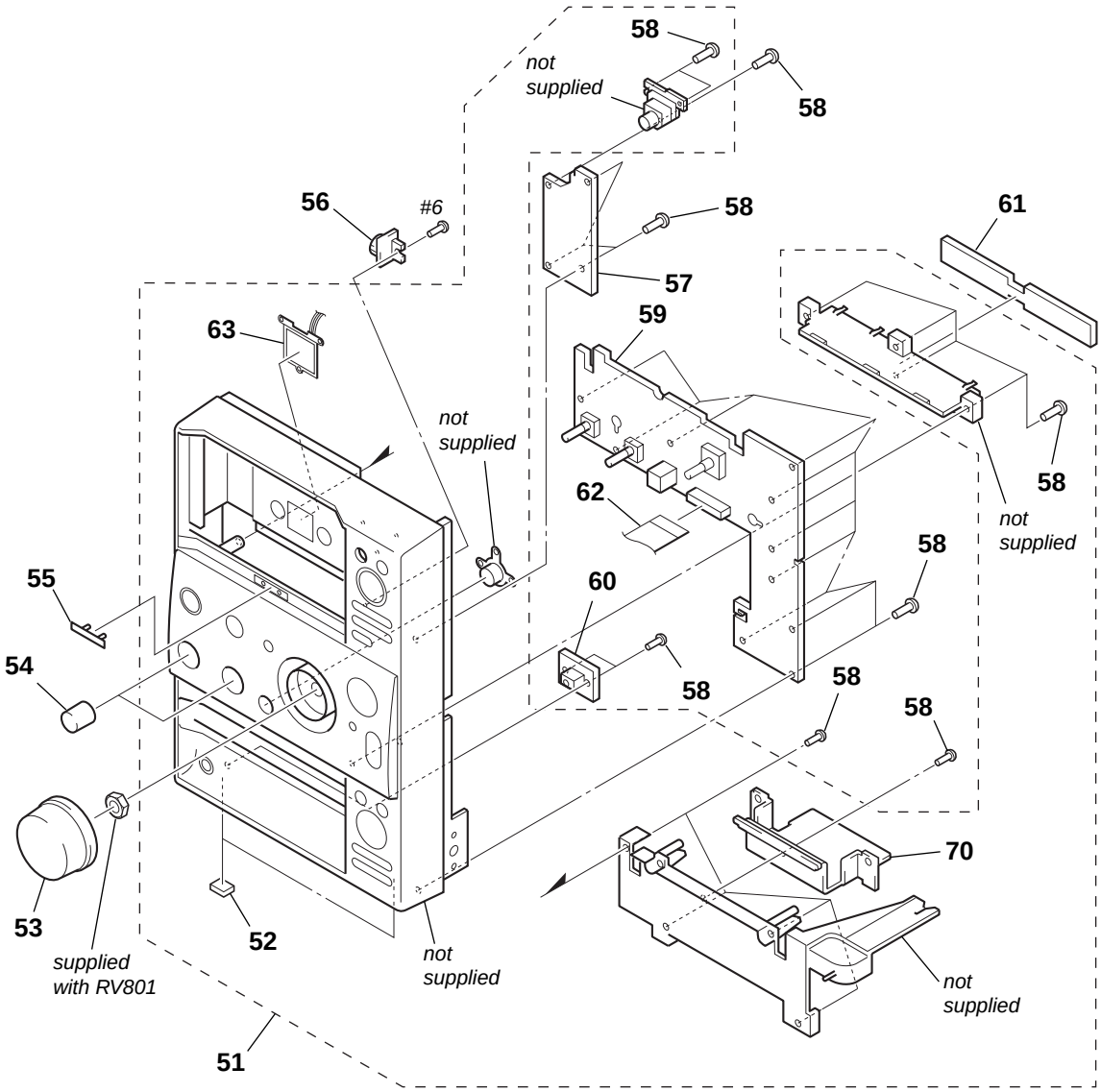
7-1. COVER SECTION



Ref. No.	Part No.	Description	Remark
1	X-4954-469-1	LID SUB ASSY, CD	
2	X-4954-468-1	LID SUB ASSY, CASSETTE	
4	1-757-808-11	CABLE, FLEXIBLE FLAT (18 CORE)	
5	1-757-807-11	CABLE, FLEXIBLE FLAT (20 CORE)	
6	1-683-890-11	LCD BOARD (AEP, UK, E, AR, SP, KR, AUS)	
6	1-683-890-21	LCD BOARD (US, CND, MX)	
7	4-217-319-11	PLATE, LCD LIGHT	
8	X-4954-467-1	CASSETTE HOLDER SUB ASSY	
9	4-238-310-01	SPRING, OPEN	
10	4-217-341-61	COVER (UPPER) (US, CND, AEP, E, KR, MX, AR, SP, AUS)	
10	4-238-306-01	COVER, UPPER (UK)	

Ref. No.	Part No.	Description	Remark
11	4-221-580-01	SCREW, CASE	
12	1-824-335-11	WIRE (FLAT TYPE) (EEC) (8 CORE)	
13	1-773-044-11	WIRE (FLAT TYPE) (17 CORE)	
14	A-4728-263-A	TC BOARD, COMPLETE	
15	1-796-353-11	DECK, MECHANICAL	
17	4-241-659-01	BELT	
18	4-241-718-01	BELT (FLAT)	
#2	7-685-245-19	SCREW +KTP 3X6 TYPE2 NON-SLIT	
#3	7-685-246-14	SCREW +KTP 3X8 TYPE2 NON-SLIT	
#6	7-685-546-14	SCREW +BTP 3X8 TYPE2 N-S	
#9	7-685-861-01	SCREW +BVTT 2.6X5 (S)	

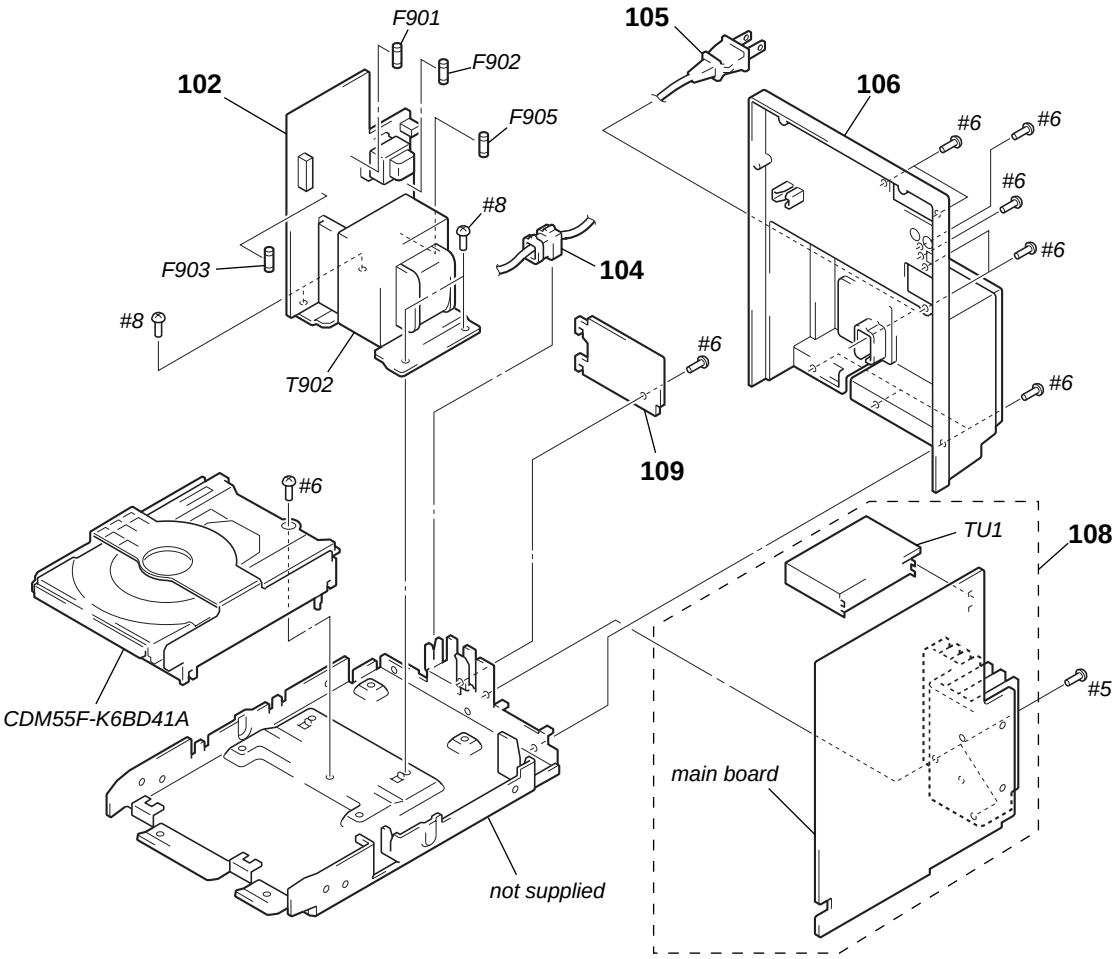
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-4954-463-1	FRONT PANEL SUB ASSY	(AEP, UK, E, KR, MX, AR, SP, AUS)
51	X-4954-867-1	FRONT PANEL SUB ASSY (US, CND)	
51	X-4954-963-1	FRONT PANEL SUB ASSY (KR)	
52	4-232-478-01	FOOT	
53	4-238-307-01	KNOB (VOL)	
54	4-238-308-01	KNOB (BASS)	
55	4-238-570-01	COVER, AZIMUTH	
56	3-351-377-11	GEAR, DAMPER	
57	A-4728-262-A	CONTROL (B) BOARD, COMPLETE	(AEP, UK, E, AR, SP, AUS)
57	A-4729-394-A	CONTROL (B) BOARD, COMPLETE	(US, CND, MX)
57	A-4730-024-A	CONTROL (B) BOARD, COMPLETE (KR)	
58	4-931-757-31	SCREW (DIA.2.6X8) (IT3B), TAPPING	

Ref. No.	Part No.	Description	Remark
59	A-4728-258-A	CONTROL (A) BOARD, COMPLETE	(AEP, UK, E, AR, SP, AUS)
59	A-4729-391-A	CONTROL (A) BOARD, COMPLETE	(US, CND, MX)
59	A-4730-021-A	CONTROL (A) BOARD, COMPLETE (KR)	
60	1-683-891-11	HEADPHONE BOARD	(AEP, UK, E, AR, SP, KR, AUS)
60	1-683-891-21	HEADPHONE BOARD (US, CND, MX)	
61	1-683-893-11	CD INDICATOR BOARD	(AEP, UK, E, AR, SP, KR, AUS)
61	1-683-893-21	CD INDICATOR BOARD (US, CND, MX)	
62	1-757-807-11	CABLE, FLEXIBLE FLAT (20 CORE)	
63	1-477-315-11	INDICATOR BLOCK, LED	
70	4-238-309-01	BRACKET (MD)	
#6	7-685-546-14	SCREW +BTP 3X8 TYPE2 N-S	

7-3. CHASSIS SECTION

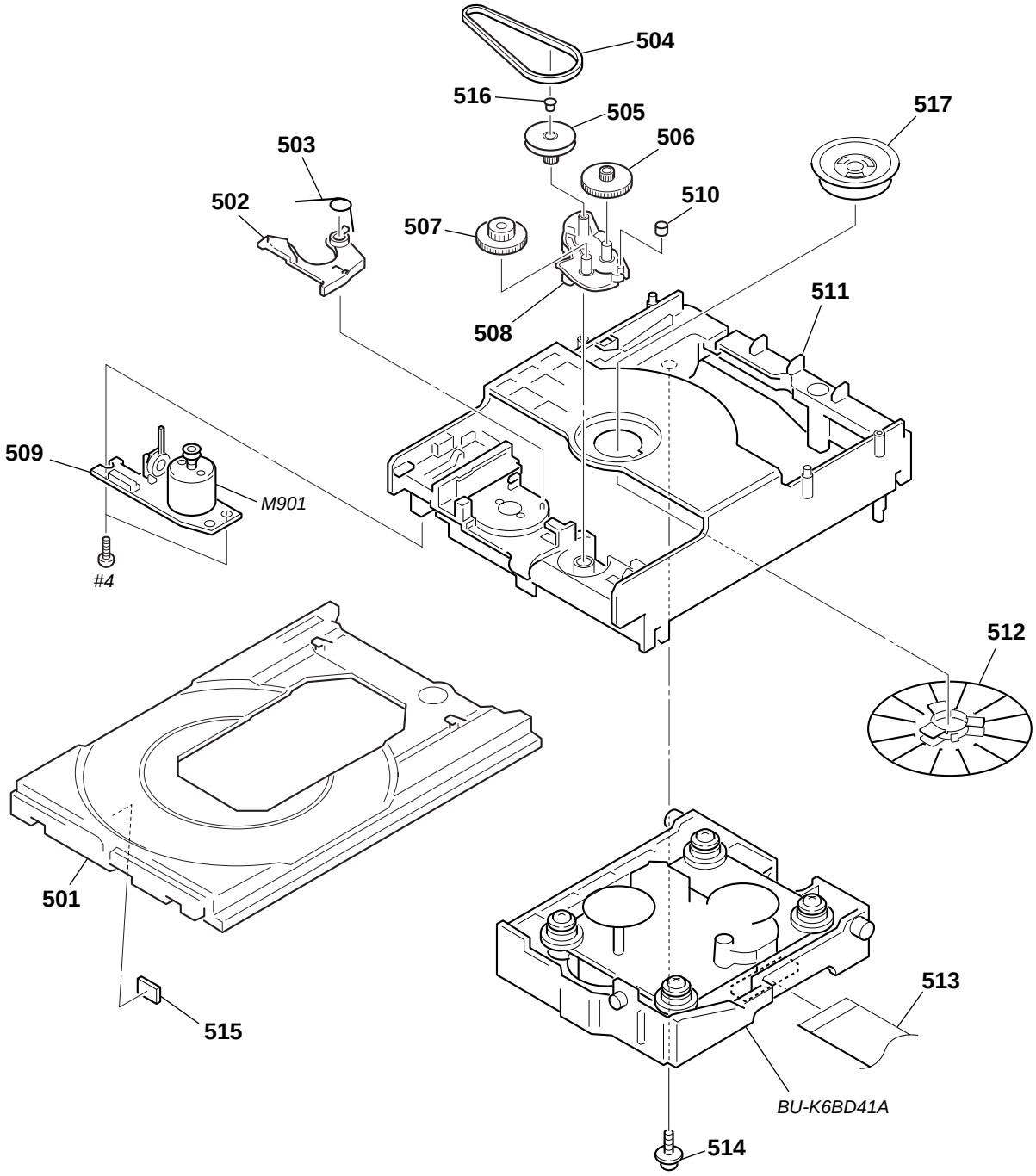


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
102	A-4728-261-A	POWER BOARD, COMPLETE (AEP, UK, AUS)	
102	A-4729-303-A	POWER BOARD, COMPLETE (E, AR, SP)	
102	A-4729-396-A	POWER BOARD, COMPLETE (US, CND)	
102	A-4729-399-A	POWER BOARD, COMPLETE (MX)	
102	A-4730-026-A	POWER BOARD, COMPLETE (KR)	
104	4-217-350-11	STOPPER, CORD	
⚠105	1-696-169-11	CORD, POWER (AEP, UK, SP)	
⚠105	1-696-848-41	CORD, POWER (AUS)	
⚠105	1-769-079-21	CORD, POWER (KR)	
⚠105	1-775-789-91	CORD, POWER (E, MX)	
⚠105	1-783-532-11	CORD, POWER (US, CND)	
⚠105	1-783-941-21	CORD, POWER (AR)	
106	X-4954-869-1	BACK PANEL ASSY (US, CND)	
106	X-4954-871-1	BACK PANEL ASSY (MX)	
108	A-4728-257-A	MAIN BOARD, COMPLETE (AEP, UK)	
108	A-4729-302-A	MAIN BOARD, COMPLETE (SP)	
108	A-4729-305-A	MAIN BOARD, COMPLETE (E, AR)	
108	A-4729-307-A	MAIN BOARD, COMPLETE (AUS)	
108	A-4729-389-A	MAIN BOARD, COMPLETE (US, CND)	
108	A-4729-397-A	MAIN BOARD, COMPLETE (MX)	
108	A-4730-019-A	MAIN BOARD, COMPLETE (KR)	

Ref. No.	Part No.	Description	Remark
109	1-683-892-11	POWER FIXED PWB	(AEP, UK, E, AR, SP, KR, AUS)
109	1-683-892-21	POWER FIXED PWB (US, CND, MX)	
F901	1-533-464-11	FUSE, GLASS TUBE (DIA. 5) (0.8A/250V)	(AEP, UK, KR, AUS)
F901	1-576-374-11	FUSE, GLASS TUBE (1.25A/125V)	(US, CND, MX)
F902	1-533-466-11	FUSE, GLASS TUBE (DIA. 5) (1.25A/250V)	(E, AR, SP)
F903	1-533-468-11	FUSE, GLASS TUBE (DIA. 5) (2A/250V)	(AEP, UK, E, AR, SP, KR, AUS)
F903	1-576-375-11	FUSE, GLASS TUBE (3.15A/125V)	(US, CND, MX)
F905	1-533-464-11	FUSE, GLASS TUBE (DIA. 5) (0.8A/250V)	(E, AR, SP)
T902	1-437-248-11	TRANSFORMER, POWER (AEP, UK, KR, AUS)	
T902	1-437-249-11	TRANSFORMER, POWER (US, CND. MX)	
T902	1-437-250-11	TRANSFORMER, POWER (E, AR, SP)	
TU1	A-4303-953-A	TUNER PACK (AEP, UK, KR, AUS)	
TU1	A-4303-954-A	TUNER PACK (US, CND, E, MX, AR, SP)	
#5	7-685-548-19	SCREW +BTP 3X12 TYPE2 N-S	
#6	7-685-546-14	SCREW +BTP 3X8 TYPE2 N-S	
#8	7-685-881-09	SCREW +BVTT 4X8 (S)	

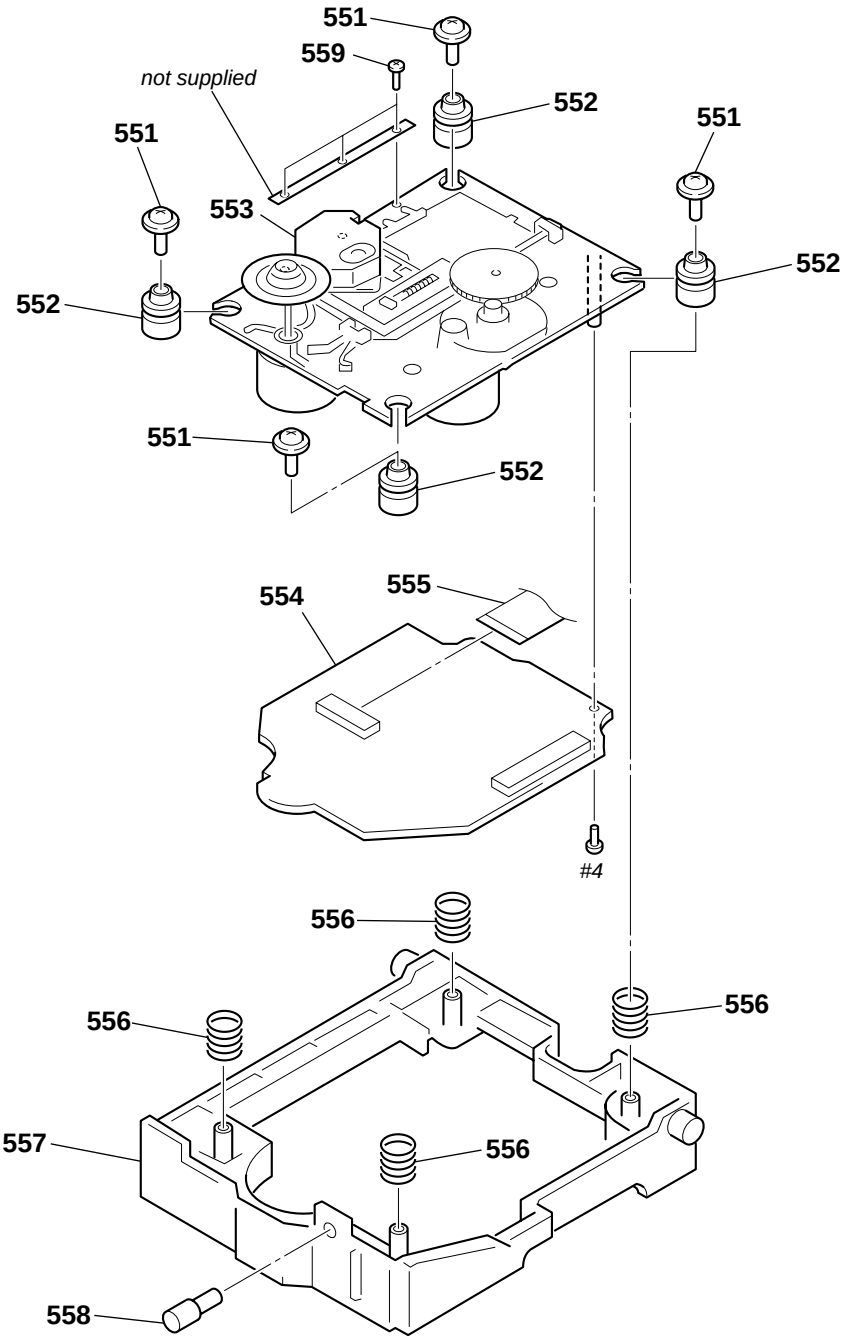
7-4. CD MECHANISM DECK (CDM55F-K6BD41A)



Ref. No.	Part No.	Description	Remark
501	4-224-894-01	TRAY	
502	4-220-229-01	LEVER (SW)	
503	4-220-239-01	SPRING, TORSION	
504	4-221-816-01	BELT (CDM55)	
505	4-220-234-01	PULLEY (LDG)	
506	4-220-237-01	GEAR (A)	
507	4-220-238-01	GEAR (B)	
508	4-220-233-01	CAM (CDM55)	
509	1-681-807-11	MOTOR BOARD	
510	4-221-815-01	ROLLER	

Ref. No.	Part No.	Description	Remark
511	4-231-779-01	CHASSIS (F)	
512	A-4735-081-A	PULLEY (AT-55F) ASSY	
513	1-792-411-11	CABLE, FLEXIBLE FLAT (19 CORE)	
514	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
515	4-925-315-31	DAMPER	
516	4-227-598-01	SPACER (55)	
517	A-4735-082-A	MAGNET ASSY	
M901	A-2004-893-A	MOTOR (LD) ASSY (LOADING)	
#4	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	

7-5. BASE UNIT (BU-K6BD41A)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
551	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
552	4-229-005-11	INSULATOR	
⚠553	A-4735-357-A	OP BASE ASSY (KSM-213DHAP/ZRP1)	
554	A-4725-626-A	CD BOARD, COMPLETE	
555	1-757-055-11	WIRE, PARALLEL (FFC) (16 CORE)	
556	4-229-004-01	SPRING, COMPRESSION	
557	4-231-780-01	HOLDER (213D)	
558	4-221-817-02	SHAFT (BU)	
559	2-641-386-01	SCREW (2X5), TAPPING (S)	
#4	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	

SECTION 8
ELECTRICAL PARTS LIST

CD

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  AR : Argentina model
  AUS : Australian model
  CND : Canadian model
  KR : Korean model
  MX : Mexican model
  SP : Singapore model
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-4725-626-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C102	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C103	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C104	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C108	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C109	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C110	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C111	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C112	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C114	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C115	1-126-382-11	ELECT	100uF	20%	16V
C116	1-126-382-11	ELECT	100uF	20%	16V
C117	1-126-382-11	ELECT	100uF	20%	16V
C118	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C119	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C121	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C122	1-126-382-11	ELECT	100uF	20%	16V
C123	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C124	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C125	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C126	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C127	1-126-382-11	ELECT	100uF	20%	16V
C129	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C130	1-115-156-11	CERAMIC CHIP	1uF		10V
C131	1-124-233-11	ELECT	10uF	20%	16V
C133	1-115-156-11	CERAMIC CHIP	1uF		10V
C140	1-115-156-11	CERAMIC CHIP	1uF		10V
C141	1-115-156-11	CERAMIC CHIP	1uF		10V
C143	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C145	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C146	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C147	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C148	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C153	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C159	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C160	1-124-257-00	ELECT	2.2uF	20%	50V
C162	1-126-382-11	ELECT	100uF	20%	16V
C163	1-126-382-11	ELECT	100uF	20%	16V
C165	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C167	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C168	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C171	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C172	1-164-218-11	CERAMIC CHIP	180PF	0.25PF	50V
C181	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C182	1-164-218-11	CERAMIC CHIP	180PF	0.25PF	50V
		< CONNECTOR >			
CN101	1-691-078-41	HOUSING, CONNECTOR 19P			
CN102	1-785-953-11	CONNECTOR, FFC/FPC 16P			
		< FERRITE BEAD >			
FB101	1-469-144-21	FERRITE	0uH		
FB102	1-469-144-21	FERRITE	0uH		
FB103	1-469-144-21	FERRITE	0uH		
FB104	1-469-144-21	FERRITE	0uH		
		< IC >			
IC101	8-752-386-85	IC CXD2587Q			
IC102	8-759-549-28	IC BA5974FP-E2			
IC103	8-752-085-51	IC CXA2568M-T6			
		< COIL >			
L101	1-410-993-11	INDUCTOR CHIP	1uH		
		< TRANSISTOR >			
Q101	8-729-010-08	TRANSISTOR	MSB710-R		
		< RESISTOR >			
R101	1-216-835-11	METAL CHIP	15K	5%	1/10W
R102	1-216-845-11	METAL CHIP	100K	5%	1/10W
R103	1-216-835-11	METAL CHIP	15K	5%	1/10W
R104	1-216-839-11	METAL CHIP	33K	5%	1/10W
R105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R106	1-216-821-11	METAL CHIP	1K	5%	1/10W
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R108	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R109	1-216-857-11	METAL CHIP	1M	5%	1/10W
R110	1-216-809-11	METAL CHIP	100	5%	1/10W
R111	1-216-857-11	METAL CHIP	1M	5%	1/10W
R113	1-216-857-11	METAL CHIP	1M	5%	1/10W
R114	1-216-833-11	METAL CHIP	10K	5%	1/10W
R116	1-216-797-11	METAL CHIP	10	5%	1/10W
R117	1-216-821-11	METAL CHIP	1K	5%	1/10W

CD | CD INDICATOR | CONTROL (A)

Ref. No.	Part No.	Description			Remark
R118	1-216-809-11	METAL CHIP	100	5%	1/10W
R119	1-216-817-11	METAL CHIP	470	5%	1/10W
R123	1-216-833-11	METAL CHIP	10K	5%	1/10W
R124	1-216-845-11	METAL CHIP	100K	5%	1/10W
R131	1-216-809-11	METAL CHIP	100	5%	1/10W
R132	1-216-863-11	RES-CHIP	3.3M	5%	1/10W
R143	1-216-848-11	METAL CHIP	180K	5%	1/10W
R144	1-216-848-11	METAL CHIP	180K	5%	1/10W
R147	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R148	1-216-797-11	METAL CHIP	10	5%	1/10W
R149	1-216-797-11	METAL CHIP	10	5%	1/10W
R158	1-216-852-11	METAL CHIP	390K	5%	1/10W
R159	1-216-847-11	METAL CHIP	150K	5%	1/10W
R160	1-216-833-11	METAL CHIP	10K	5%	1/10W
R161	1-216-821-11	METAL CHIP	1K	5%	1/10W
R162	1-216-847-11	METAL CHIP	150K	5%	1/10W
R171	1-218-291-11	RES-CHIP	16K	5%	1/10W
R172	1-216-833-11	METAL CHIP	10K	5%	1/10W
R173	1-216-835-11	METAL CHIP	15K	5%	1/10W
R181	1-218-291-11	RES-CHIP	16K	5%	1/10W
R182	1-216-833-11	METAL CHIP	10K	5%	1/10W
R183	1-216-835-11	METAL CHIP	15K	5%	1/10W
		< COMPOSITION CIRCUIT BLOCK >			
RN101	1-233-576-11	RES, CHIP NETWORK 100			
		< SWITCH >			
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)			
		< VIBRATOR >			
X101	1-781-947-11	VIBRATOR, CRYSTAL (16.9344MHz)			
**********					
	1-683-893-11	CD INDICATOR BOARD (AEP, UK, E, SP, AR, KR, AUS)			
	1-683-893-21	CD INDICATOR BOARD (US, CND, MX)			
		**********			
		< CONNECTOR >			
CN806	1-506-481-11	PIN, CONNECTOR 2P			
		< LED >			
D860	6-500-076-01	LED SLI-343YC (DISC TRAY ILLUMINATION)			
D861	6-500-076-01	LED SLI-343YC (DISC TRAY ILLUMINATION)			
D863	6-500-076-01	LED SLI-343YC (DISC TRAY ILLUMINATION)			
		< RESISTOR >			
R682	1-247-807-11	CARBON	100	5%	1/4W
**********					

Ref. No.	Part No.	Description			Remark
	A-4728-258-A	CONTROL (A) BOARD, COMPLETE (AEP, UK, E, SP, AR, AUS)			
	A-4729-391-A	CONTROL (A) BOARD, COMPLETE (US, CND, MX)			
	A-4730-021-A	CONTROL (A) BOARD, COMPLETE (KR)			
		**********			
		< CAPACITOR >			
C612	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C613	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C614	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C615	1-126-963-11	ELECT	4.7uF	20%	50V
		< CONNECTOR >			
CN805	1-784-781-11	CONNECTOR, FFC 20P			
* CN809	1-568-943-11	PIN, CONNECTOR 5P			
		< LED >			
D851	8-719-074-42	LED SLR325VR-T31 (STANDBY)			
D852	6-500-076-01	LED SLI-343YC (▷ ▯▯)			
D853	6-500-076-01	LED SLI-343YC (▷ ▯▯)			
D856	6-500-076-01	LED SLI-343YC (BAND)			
D857	6-500-076-01	LED SLI-343YC (BAND)			
D858	8-719-060-26	LED SLR-325YCT31 (DSG)			
		< IC >			
IC802	8-759-827-70	IC NJL64H400A-1			
		< RESISTOR >			
JR601	1-216-864-11	METAL CHIP	0	5%	1/10W
JR602	1-216-864-11	METAL CHIP	0	5%	1/10W
		< TRANSISTOR >			
Q851	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q852	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q854	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q855	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q856	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q857	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
		< RESISTOR >			
R600	1-216-833-11	METAL CHIP	10K	5%	1/10W
R624	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R651	1-216-841-11	METAL CHIP	47K	5%	1/10W
R652	1-216-837-11	METAL CHIP	22K	5%	1/10W
R653	1-216-833-11	METAL CHIP	10K	5%	1/10W
R654	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R655	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R656	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R657	1-216-821-11	METAL CHIP	1K	5%	1/10W
R659	1-216-833-11	METAL CHIP	10K	5%	1/10W
R667	1-216-845-11	METAL CHIP	100K	5%	1/10W
R668	1-216-845-11	METAL CHIP	100K	5%	1/10W
R669	1-216-845-11	METAL CHIP	100K	5%	1/10W
R670	1-216-845-11	METAL CHIP	100K	5%	1/10W
R671	1-216-845-11	METAL CHIP	100K	5%	1/10W
R672	1-216-845-11	METAL CHIP	100K	5%	1/10W

CONTROL (A) | CONTROL (B) | HEADPHONE | LCD

Ref. No.	Part No.	Description			Remark
R675	1-216-833-11	METAL CHIP	10K	5%	1/10W
R676	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R677	1-216-818-11	METAL CHIP	560	5%	1/10W
R679	1-216-815-11	METAL CHIP	330	5%	1/10W
R684	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R685	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R686	1-216-821-11	METAL CHIP	1K	5%	1/10W
R687	1-216-816-11	METAL CHIP	390	5%	1/10W
R689	1-216-841-11	METAL CHIP	47K	5%	1/10W
R690	1-216-837-11	METAL CHIP	22K	5%	1/10W
R691	1-216-833-11	METAL CHIP	10K	5%	1/10W
R692	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R698	1-216-816-11	METAL CHIP	390	5%	1/10W
		< ROTARY ENCODER >			
RV801	1-473-392-11	ENCODER, ROTARY (VOLUME)			
RV802	1-418-859-11	ENCODER, ROTARY (TREBLE)			
RV803	1-418-859-11	ENCODER, ROTARY (BASS)			
		< SWITCH >			
S801	1-786-220-11	SWITCH, KEY BOARD (I/⏻)			
S802	1-786-220-11	SWITCH, KEY BOARD (▷ ▯▯)			
S803	1-786-220-11	SWITCH, KEY BOARD (□)			
S804	1-786-220-11	SWITCH, KEY BOARD (▶▶ ▶▶▌)			
S805	1-786-220-11	SWITCH, KEY BOARD (◀◀ ▌◀◀)			
S806	1-786-220-11	SWITCH, KEY BOARD (PLAY MODE)			
S807	1-786-220-11	SWITCH, KEY BOARD (REPEAT)			
S808	1-786-220-11	SWITCH, KEY BOARD (⏏)			
S816	1-786-220-11	SWITCH, KEY BOARD (BAND)			
S817	1-786-220-11	SWITCH, KEY BOARD (DSG)			
S818	1-786-220-11	SWITCH, KEY BOARD (TUNING +)			
S819	1-786-220-11	SWITCH, KEY BOARD (TUNING –)			
S820	1-786-220-11	SWITCH, KEY BOARD (TUNING MODE)			
S821	1-786-220-11	SWITCH, KEY BOARD (FUNCTION)			
**********					
	A-4728-262-A	CONTROL (B) BOARD, COMPLETE (AEP, UK, E, SP, AR, AUS)			
	A-4729-394-A	CONTROL (B) BOARD, COMPLETE (US, CND, MX)			
	A-4730-024-A	CONTROL (B) BOARD, COMPLETE (KR)			
		**********			
		< LED >			
D854	6-500-076-01	LED SLI-343YC (◁ ▷)			
D855	6-500-076-01	LED SLI-343YC (◁ ▷)			
D859	8-719-074-42	LED SLR325VR-T31 (CD SYNC)			
		< TRANSISTOR >			
Q853	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
		< RESISTOR >			
R660	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R661	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R662	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R663	1-216-833-11	METAL CHIP	10K	5%	1/10W
R664	1-216-837-11	METAL CHIP	22K	5%	1/10W
R665	1-216-841-11	METAL CHIP	47K	5%	1/10W
R666	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R680	1-216-820-11	METAL CHIP	820	5%	1/10W
R697	1-216-816-11	METAL CHIP	390	5%	1/10W
		< SWITCH >			
S809	1-786-220-11	SWITCH, KEY BOARD (◁ ▷)			
S810	1-786-220-11	SWITCH, KEY BOARD (□)			
S811	1-786-220-11	SWITCH, KEY BOARD (▶▶)			
S812	1-786-220-11	SWITCH, KEY BOARD (◀◀)			
S813	1-786-220-11	SWITCH, KEY BOARD (▮▮)			
S814	1-786-220-11	SWITCH, KEY BOARD (● REC)			
S815	1-786-220-11	SWITCH, KEY BOARD (CD SYNC)			
**********					
	1-683-891-11	HEADPHONE BOARD (AEP, UK, E, SP, AR, KR, AUS)			
	1-683-891-21	HEADPHONE BOARD (US, CND, MX)			
		**********			
		< CAPACITOR >			
C161	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C261	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
		< FERRITE BEAD >			
FB101	1-414-813-11	FERRITE	0uH (US, CND, MX)		
FB201	1-414-813-11	FERRITE	0uH (US, CND, MX)		
FB303	1-414-813-11	FERRITE	0uH (US, CND, MX)		
		< JACK >			
J301	1-794-453-11	JACK (PHONES)			
		< COIL >			
L102	1-412-002-31	INDUCTOR	4.7uH		
L202	1-412-002-31	INDUCTOR	4.7uH		
L307	1-410-997-42	INDUCTOR	2.2uH (US, CND, MX)		
**********					
	1-683-890-11	LCD BOARD (AEP, UK, E, SP, AR, KR, AUS)			
	1-683-890-21	LCD BOARD (US, CND, MX)			
		**********			
		< CONNECTOR >			
CN803	1-785-952-11	CONNECTOR, FFC/FPC (ZIF) 20P			
CN810	1-785-951-11	CONNECTOR, FFC/FPC (ZIF) 18P			
		< LED >			
D866	8-719-085-55	LED SY3318-V-L (LCD BACK LIGHT)			
D867	8-719-085-55	LED SY3318-V-L (LCD BACK LIGHT)			
D868	8-719-085-55	LED SY3318-V-L (LCD BACK LIGHT)			
D869	8-719-085-55	LED SY3318-V-L (LCD BACK LIGHT)			
		< LIQUID CRYSTAL DISPLAY >			
LCD801	1-803-542-21	DISPLAY PANEL, LIQUID CRYSTAL			
		< RESISTOR >			
R627	1-249-407-11	CARBON	150	5%	1/4W
R628	1-249-407-11	CARBON	150	5%	1/4W
**********					

MAIN

Ref. No.	Part No.	Description			Remark
	A-4728-257-A	MAIN BOARD, COMPLETE (AEP, UK)			
	A-4729-302-A	MAIN BOARD, COMPLETE (SP)			
	A-4729-305-A	MAIN BOARD, COMPLETE (E, AR)			
	A-4729-307-A	MAIN BOARD, COMPLETE (AUS)			
	A-4729-389-A	MAIN BOARD, COMPLETE (US, CND)			
	A-4729-397-A	MAIN BOARD, COMPLETE (MX)			
	A-4730-019-A	MAIN BOARD, COMPLETE (KR)			
		**********			
	4-217-354-11	BUSHING, INSULATING			
	4-230-078-01	SCREW, +BV TAPPING			
	7-685-546-14	SCREW +BTP 3X8 TYPE2 N-S			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S			
		< CAPACITOR >			
C101	1-126-963-11	ELECT	4.7uF	20%	50V
C102	1-126-963-11	ELECT	4.7uF	20%	50V
C103	1-126-963-11	ELECT	4.7uF	20%	50V
C104	1-126-963-11	ELECT	4.7uF	20%	50V
C105	1-126-963-11	ELECT	4.7uF	20%	50V
C106	1-126-963-11	ELECT	4.7uF	20%	50V
C107	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C108	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C109	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C110	1-115-156-11	CERAMIC CHIP	1uF		10V
C114	1-126-963-11	ELECT	4.7uF	20%	50V
C115	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C117	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C130	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C131	1-126-963-11	ELECT	4.7uF	20%	50V
C140	1-126-963-11	ELECT	4.7uF	20%	50V
C141	1-126-947-11	ELECT	47uF	20%	35V
C142	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C143	1-126-965-11	ELECT	22uF	20%	35V
C144	1-130-495-00	MYLAR	0.1uF	5%	50V
C145	1-130-495-00	MYLAR	0.1uF	5%	50V
C160	1-126-933-11	ELECT	100uF	20%	16V
C170	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
					(E, SP, AR)
C170	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
					(EXCEPT E, SP, AR)
C201	1-126-963-11	ELECT	4.7uF	20%	50V
C202	1-126-963-11	ELECT	4.7uF	20%	50V
C203	1-126-963-11	ELECT	4.7uF	20%	50V
C204	1-126-963-11	ELECT	4.7uF	20%	50V
C205	1-126-963-11	ELECT	4.7uF	20%	50V
C206	1-126-963-11	ELECT	4.7uF	20%	50V
C207	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C208	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C209	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C210	1-115-156-11	CERAMIC CHIP	1uF		10V
C214	1-126-963-11	ELECT	4.7uF	20%	50V
C215	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C217	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C230	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C231	1-126-963-11	ELECT	4.7uF	20%	50V
C240	1-126-963-11	ELECT	4.7uF	20%	50V
C241	1-126-947-11	ELECT	47uF	20%	35V
C242	1-162-962-11	CERAMIC CHIP	470PF	10%	50V

Ref. No.	Part No.	Description			Remark
C243	1-126-965-11	ELECT	22uF	20%	35V
C244	1-130-495-00	MYLAR	0.1uF	5%	50V
C245	1-130-495-00	MYLAR	0.1uF	5%	50V
C260	1-126-933-11	ELECT	100uF	20%	16V
C270	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
					(E, SP, AR)
C270	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
					(EXCEPT E, SP, AR)
C301	1-126-965-11	ELECT	22uF	20%	50V
C302	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C303	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C304	1-126-933-11	ELECT	100uF	20%	16V
C305	1-126-947-11	ELECT	47uF	20%	16V
C306	1-126-964-11	ELECT	10uF	20%	50V
C307	1-126-963-11	ELECT	4.7uF	20%	50V
C308	1-126-860-61	ELECT	3300uF	20%	35V
C309	1-126-860-61	ELECT	3300uF	20%	35V
C310	1-126-944-11	ELECT	3300uF	20%	25V
C311	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C312	1-126-934-11	ELECT	220uF	20%	10V
C313	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C314	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C315	1-126-947-11	ELECT	47uF	20%	16V
C316	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C317	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C318	1-126-935-11	ELECT	470uF	20%	16V
C319	1-126-964-11	ELECT	10uF	20%	50V
C320	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C321	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C322	1-126-934-11	ELECT	220uF	20%	10V
C323	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C324	1-126-935-11	ELECT	470uF	20%	16V
C325	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C328	1-126-933-11	ELECT	100uF	20%	16V
C329	1-126-935-11	ELECT	470uF	20%	16V
C330	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C331	1-126-934-11	ELECT	220uF	20%	10V
C332	1-126-926-11	ELECT	1000uF	20%	10V
C333	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C339	1-126-935-11	ELECT	470uF	20%	16V
C340	1-126-964-11	ELECT	10uF	20%	50V
C341	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C342	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C343	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C344	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C345	1-104-665-11	ELECT	100uF	20%	10V
C346	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C347	1-126-964-11	ELECT	10uF	20%	50V
C360	1-126-947-11	ELECT	47uF	20%	16V
C361	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
					(US, CND, MX)
C365	1-126-934-11	ELECT	220uF	20%	10V
C368	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C370	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C371	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
					(EXCEPT US, CND, MX)
C372	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C373	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description			Remark
C374	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (US, CND, MX)
C375	1-162-294-31	CERAMIC	0.001uF	10%	50V
C380	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (US, CND, MX)
C501	1-104-665-11	ELECT	100uF	20%	10V
C502	1-104-665-11	ELECT	100uF	20%	10V
C600	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C603	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP, UK)
C604	1-126-947-11	ELECT	47uF	20%	10V (AEP, UK)
C605	1-164-185-11	CERAMIC CHIP	13PF	5%	50V (AEP, UK)
C606	1-164-185-11	CERAMIC CHIP	13PF	5%	50V (AEP, UK)
C607	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP, UK)
C608	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (AEP, UK)
C609	1-164-739-11	CERAMIC CHIP	560PF	5%	50V (AEP, UK)
C610	1-126-963-11	ELECT	4.7uF	20%	50V (AEP, UK)
C611	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK)
C800	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C803	1-162-975-11	CERAMIC CHIP	24PF	5%	50V
C804	1-162-975-11	CERAMIC CHIP	24PF	5%	50V
C805	1-115-156-11	CERAMIC CHIP	1uF		10V
C806	1-115-156-11	CERAMIC CHIP	1uF		10V
C807	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C808	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C809	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C810	1-115-456-21	DOUBLE LAYER	0.22F		5.5V
C811	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C812	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C813	1-126-964-11	ELECT	10uF	20%	50V
C814	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CN101	1-784-780-11	CONNECTOR, FFC 19P			
CN301	1-784-778-11	CONNECTOR, FFC 17P			
* CN303	1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P			
* CN401	1-568-954-11	PIN, CONNECTOR 5P			
CN501	1-506-469-11	PIN, CONNECTOR 4P			
CN801	1-779-288-11	CONNECTOR, FFC (LIF (NON-ZIF)) 20P			
CN802	1-779-286-11	CONNECTOR, FFC (LIF (NON-ZIF)) 18P			
CN804	1-785-949-11	CONNECTOR, FFC/FPC 20P			
		< DIODE >			
D301	8-719-914-42	DIODE DA204K-T-146			
D303	8-719-200-82	DIODE 11ES2-TA1B			
D304	8-719-921-42	DIODE MTZJ-5.1A			
D305	8-719-110-17	DIODE MTZJ-T-77-10B			
D307	8-719-110-17	DIODE MTZJ-T-77-10B			
D308	8-719-109-89	DIODE MTZJ-T-77-5.6B			
D309	8-719-110-08	DIODE MTZJ-T-77-8.2B			
D310	8-719-200-82	DIODE 11ES2-TA1B			
D311	8-719-110-31	DIODE MTZJ-T-77-12B			

Ref. No.	Part No.	Description			Remark
D601	8-719-200-82	DIODE 11ES2-TA1B			
D602	8-719-200-82	DIODE 11ES2-TA1B			
D801	8-719-991-33	DIODE 1SS133T-77			
D802	8-719-991-33	DIODE 1SS133T-77			
D805	8-719-982-11	DIODE MTZJ-T-77-4.3B (AEP, UK)			
D806	8-719-991-33	DIODE 1SS133T-77 (AEP, UK)			
D807	8-719-991-33	DIODE 1SS133T-77			
D808	8-719-991-33	DIODE 1SS133T-77			
D811	8-719-991-33	DIODE 1SS133T-77			
D812	8-719-991-33	DIODE 1SS133T-77			
		< FERRITE BEAD >			
FB301	1-414-813-11	FERRITE	0uH		
FB302	1-414-813-11	FERRITE	0uH		
		< IC >			
IC101	8-759-584-38	IC TDA7296			
IC201	8-759-584-38	IC TDA7296			
IC301	8-759-646-52	IC KIA7805API			
IC304	8-759-646-54	IC KIA7808API			
IC306	8-759-646-54	IC KIA7808API			
IC320	8-759-822-09	IC LB1641			
IC321	8-749-923-04	IC TOTX178A (OPTICAL DIGITAL OUT (CD))			
IC323	8-759-669-03	IC LC75342			
IC324	8-759-359-49	IC NJM3414AV (TE2)			
IC801	8-752-932-07	IC CXP83124A-055Q			
IC803	8-759-652-68	IC BMR-0301H			
IC804	8-759-557-36	IC BU1924F-E2 (AEP, UK)			
		< RESISTOR >			
JR300	1-216-864-11	METAL CHIP	0	5%	1/10W
JR301	1-216-864-11	METAL CHIP	0	5%	1/10W
JR302	1-216-864-11	METAL CHIP	0	5%	1/10W
JR303	1-216-864-11	METAL CHIP	0	5%	1/10W
		< COIL >			
L101	1-422-009-13	COIL, AIR-CORE			
L201	1-422-009-13	COIL, AIR-CORE			
L301	1-410-324-11	INDUCTOR	4.7uH		
L304	1-414-137-31	INDUCTOR	0.22uH		
L305	1-410-750-41	INDUCTOR	0.47uH		
L306	1-410-985-11	INDUCTOR	0.22uH (AEP, UK)		
L306	1-410-985-42	INDUCTOR	0.22uH (EXCEPT AEP, UK)		
		< TRANSISTOR >			
Q100	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q200	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q301	8-729-028-54	TRANSISTOR	KTC3205-Y-AT		
Q303	8-729-038-54	TRANSISTOR	KRA102S		
Q304	8-729-038-68	TRANSISTOR	KRC103S		
Q305	8-729-019-00	TRANSISTOR	KTC2026		
Q306	8-729-019-00	TRANSISTOR	KTC2026		
Q307	8-729-038-54	TRANSISTOR	KRA102S		
Q308	8-729-038-68	TRANSISTOR	KRC103S		
Q310	8-729-038-67	TRANSISTOR	KRC102S		
Q312	8-729-038-68	TRANSISTOR	KRC103S		
Q313	8-729-038-54	TRANSISTOR	KRA102S		

MAIN

Ref. No.	Part No.	Description			Remark
Q330	8-729-038-68	TRANSISTOR	KRC103S		
Q355	8-729-019-00	TRANSISTOR	KTC2026		
Q501	8-729-036-89	TRANSISTOR	KTC3198GR-A		
Q502	8-729-036-89	TRANSISTOR	KTC3198GR-A		
Q601	8-729-202-56	TRANSISTOR	2SA950-Y-TPE2		
Q602	8-729-038-67	TRANSISTOR	KRC102S		
Q603	8-729-038-67	TRANSISTOR	KRC102S		
Q604	8-729-202-56	TRANSISTOR	2SA950-Y-TPE2		
Q605	8-729-038-67	TRANSISTOR	KRC102S		
Q606	8-729-038-67	TRANSISTOR	KRC102S		
Q607	8-729-801-84	TRANSISTOR	2SB1013-TP-34		
Q608	8-729-801-84	TRANSISTOR	2SB1013-TP-34		
Q609	8-729-038-67	TRANSISTOR	KRC102S		
Q802	8-729-038-67	TRANSISTOR	KRC102S		
Q803	8-729-038-67	TRANSISTOR	KRC102S		
Q804	8-729-038-67	TRANSISTOR	KRC102S		
Q805	8-729-038-67	TRANSISTOR	KRC102S		
Q806	8-729-038-67	TRANSISTOR	KRC102S		
Q807	8-729-038-67	TRANSISTOR	KRC102S		
Q808	8-729-038-67	TRANSISTOR	KRC102S		
Q810	8-729-038-67	TRANSISTOR	KRC102S		
Q811	8-729-038-67	TRANSISTOR	KRC102S		
Q812	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		(AEP, UK)
Q813	8-729-038-67	TRANSISTOR	KRC102S		
Q814	8-729-038-67	TRANSISTOR	KRC102S		
Q815	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q816	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q817	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q818	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q890	8-729-038-54	TRANSISTOR	KRA102S		
Q891	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R		
		< RESISTOR >			
R101	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R102	1-216-821-11	METAL CHIP	1K	5%	1/10W
R103	1-216-833-11	METAL CHIP	10K	5%	1/10W
R104	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R105	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R106	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R107	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R113	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R114	1-216-841-11	METAL CHIP	47K	5%	1/10W
R118	1-216-821-11	METAL CHIP	1K	5%	1/10W
R120	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R121	1-216-849-11	METAL CHIP	220K	5%	1/10W
R122	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R123	1-216-837-11	METAL CHIP	22K	5%	1/10W
R132	1-216-833-11	METAL CHIP	10K	5%	1/10W
R140	1-216-817-11	METAL CHIP	470	5%	1/10W (EXCEPT E, SP, AR)
R140	1-216-818-11	METAL CHIP	560	5%	1/10W (E, SP, AR)
R141	1-216-833-11	METAL CHIP	10K	5%	1/10W
R142	1-216-839-11	METAL CHIP	33K	5%	1/10W
R143	1-216-845-11	METAL CHIP	100K	5%	1/10W
R144	1-249-389-11	CARBON	4.7	5%	1/4W

Ref. No.	Part No.	Description			Remark
R160	1-216-805-11	METAL CHIP	47	5%	1/10W
R201	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R202	1-216-821-11	METAL CHIP	1K	5%	1/10W
R203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R204	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R205	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R206	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R207	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R213	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R214	1-216-841-11	METAL CHIP	47K	5%	1/10W
R218	1-216-821-11	METAL CHIP	1K	5%	1/10W
R220	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R221	1-216-849-11	METAL CHIP	220K	5%	1/10W
R222	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R223	1-216-837-11	METAL CHIP	22K	5%	1/10W
R232	1-216-833-11	METAL CHIP	10K	5%	1/10W
R240	1-216-817-11	METAL CHIP	470	5%	1/10W (EXCEPT E, SP, AR)
R240	1-216-818-11	METAL CHIP	560	5%	1/10W (E, SP, AR)
R241	1-216-833-11	METAL CHIP	10K	5%	1/10W
R242	1-216-839-11	METAL CHIP	33K	5%	1/10W
R243	1-216-845-11	METAL CHIP	100K	5%	1/10W
R245	1-249-389-11	CARBON	4.7	5%	1/4W
R260	1-216-805-11	METAL CHIP	47	5%	1/10W
R301	1-216-797-11	METAL CHIP	10	5%	1/10W
R302	1-216-809-11	METAL CHIP	100	5%	1/10W
R303	1-216-809-11	METAL CHIP	100	5%	1/10W
R304	1-216-797-11	METAL CHIP	10	5%	1/10W
R305	1-216-833-11	METAL CHIP	10K	5%	1/10W
R306	1-216-833-11	METAL CHIP	10K	5%	1/10W
R307	1-216-833-11	METAL CHIP	10K	5%	1/10W
R308	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R309	1-216-797-11	METAL CHIP	10	5%	1/10W
R310	1-216-809-11	METAL CHIP	100	5%	1/10W
R311	1-216-809-11	METAL CHIP	100	5%	1/10W
R312	1-249-413-11	CARBON	470	5%	1/4W
R313	1-249-413-11	CARBON	470	5%	1/4W
R314	1-249-413-11	CARBON	470	5%	1/4W
R317	1-216-841-11	METAL CHIP	47K	5%	1/10W
R318	1-216-841-11	METAL CHIP	47K	5%	1/10W
R320	1-216-851-11	METAL CHIP	330K	5%	1/10W
R340	1-247-807-31	CARBON	100	5%	1/4W
R350	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R396	1-216-837-11	METAL CHIP	22K	5%	1/10W
R397	1-216-797-11	METAL CHIP	10	5%	1/10W
R501	1-216-843-11	METAL CHIP	68K	5%	1/10W
R502	1-216-841-11	METAL CHIP	47K	5%	1/10W
R503	1-216-841-11	METAL CHIP	47K	5%	1/10W
R504	1-216-821-11	METAL CHIP	1K	5%	1/10W
R505	1-216-833-11	METAL CHIP	10K	5%	1/10W
R601	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R602	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R603	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R604	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R605	1-249-407-11	CARBON	150	5%	1/4W
R606	1-216-841-11	METAL CHIP	47K	5%	1/10W
R607	1-216-841-11	METAL CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R608	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R609	1-249-408-11	CARBON	180	5%	1/4W
R610	1-216-843-11	METAL CHIP	68K	5%	1/10W
R611	1-216-845-11	METAL CHIP	100K	5%	1/10W
R612	1-216-821-11	METAL CHIP	1K	5%	1/10W
R613	1-216-821-11	METAL CHIP	1K	5%	1/10W
R614	1-216-821-11	METAL CHIP	1K	5%	1/10W
R615	1-216-821-11	METAL CHIP	1K	5%	1/10W
R616	1-216-821-11	METAL CHIP	1K	5%	1/10W
R617	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (AEP, UK)
R618	1-216-853-11	METAL CHIP	470K	5%	1/10W (AEP, UK)
R619	1-216-845-11	METAL CHIP	100K	5%	1/10W (AEP, UK)
R620	1-216-821-11	METAL CHIP	1K	5%	1/10W (AEP, UK)
R621	1-216-814-11	METAL CHIP	270	5%	1/10W (AEP, UK)
R622	1-216-841-11	METAL CHIP	47K	5%	1/10W (AEP, UK)
R623	1-216-843-11	METAL CHIP	68K	5%	1/10W (AEP, UK)
R626	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R629	1-216-841-11	METAL CHIP	47K	5%	1/10W
R800	1-216-821-11	METAL CHIP	1K	5%	1/10W
R801	1-216-821-11	METAL CHIP	1K	5%	1/10W
R802	1-216-821-11	METAL CHIP	1K	5%	1/10W
R803	1-216-821-11	METAL CHIP	1K	5%	1/10W
R804	1-216-821-11	METAL CHIP	1K	5%	1/10W
R805	1-216-821-11	METAL CHIP	1K	5%	1/10W
R806	1-216-821-11	METAL CHIP	1K	5%	1/10W
R807	1-216-821-11	METAL CHIP	1K	5%	1/10W
R808	1-216-821-11	METAL CHIP	1K	5%	1/10W
R809	1-216-821-11	METAL CHIP	1K	5%	1/10W
R810	1-216-821-11	METAL CHIP	1K	5%	1/10W
R811	1-216-821-11	METAL CHIP	1K	5%	1/10W
R812	1-216-821-11	METAL CHIP	1K	5%	1/10W
R813	1-216-821-11	METAL CHIP	1K	5%	1/10W
R814	1-216-821-11	METAL CHIP	1K	5%	1/10W
R815	1-216-821-11	METAL CHIP	1K	5%	1/10W
R816	1-216-821-11	METAL CHIP	1K	5%	1/10W
R817	1-216-821-11	METAL CHIP	1K	5%	1/10W
R818	1-216-821-11	METAL CHIP	1K	5%	1/10W
R819	1-216-821-11	METAL CHIP	1K	5%	1/10W
R820	1-216-821-11	METAL CHIP	1K	5%	1/10W
R821	1-216-821-11	METAL CHIP	1K	5%	1/10W
R822	1-216-821-11	METAL CHIP	1K	5%	1/10W
R823	1-216-821-11	METAL CHIP	1K	5%	1/10W
R824	1-216-821-11	METAL CHIP	1K	5%	1/10W
R825	1-216-809-11	METAL CHIP	100	5%	1/10W
R826	1-216-821-11	METAL CHIP	1K	5%	1/10W
R827	1-216-821-11	METAL CHIP	1K	5%	1/10W
R828	1-216-821-11	METAL CHIP	1K	5%	1/10W
R829	1-216-821-11	METAL CHIP	1K	5%	1/10W
R830	1-216-821-11	METAL CHIP	1K	5%	1/10W
R831	1-216-821-11	METAL CHIP	1K	5%	1/10W
R832	1-216-821-11	METAL CHIP	1K	5%	1/10W
R833	1-216-821-11	METAL CHIP	1K	5%	1/10W
R834	1-216-821-11	METAL CHIP	1K	5%	1/10W
R835	1-216-821-11	METAL CHIP	1K	5%	1/10W
R836	1-216-821-11	METAL CHIP	1K	5%	1/10W
R837	1-216-821-11	METAL CHIP	1K	5%	1/10W
R838	1-216-817-11	METAL CHIP	470	5%	1/10W
R840	1-216-841-11	METAL CHIP	47K	5%	1/10W
R841	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (AEP, UK)
R841	1-216-837-11	METAL CHIP	22K	5%	1/10W (E, MX, AR)
R841	1-216-839-11	METAL CHIP	33K	5%	1/10W (SP, KR, AUS)
R841	1-216-864-11	METAL CHIP	0	5%	1/10W (US, CND)
R842	1-216-833-11	METAL CHIP	10K	5%	1/10W
R843	1-216-845-11	METAL CHIP	100K	5%	1/10W
R844	1-216-821-11	METAL CHIP	1K	5%	1/10W (US, CND)
R844	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (AEP, UK)
R844	1-216-833-11	METAL CHIP	10K	5%	1/10W (SP, KR, AUS)
R844	1-216-843-11	METAL CHIP	68K	5%	1/10W (E, MX, AR)
R845	1-216-845-11	METAL CHIP	100K	5%	1/10W
R846	1-216-837-11	METAL CHIP	22K	5%	1/10W
R847	1-216-833-11	METAL CHIP	10K	5%	1/10W
R848	1-216-833-11	METAL CHIP	10K	5%	1/10W
R849	1-216-833-11	METAL CHIP	10K	5%	1/10W
R850	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R851	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R852	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R853	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R854	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R855	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R856	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R857	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R858	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R859	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R860	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R861	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R862	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R863	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R864	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R865	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R866	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R867	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R868	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R869	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R870	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R871	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R872	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R873	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R874	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R875	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R876	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R877	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R878	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R879	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

MAIN **MOTOR** **POWER**

Ref. No.	Part No.	Description			Remark
R880	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R881	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R882	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R883	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R884	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R885	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R886	1-216-821-11	METAL CHIP	1K	5%	1/10W
R887	1-216-821-11	METAL CHIP	1K	5%	1/10W
R888	1-216-821-11	METAL CHIP	1K	5%	1/10W
R890	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R891	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R892	1-216-817-11	METAL CHIP	470	5%	1/10W
R894	1-216-821-11	METAL CHIP	1K	5%	1/10W
R895	1-216-821-11	METAL CHIP	1K	5%	1/10W
R896	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R897	1-216-821-11	METAL CHIP	1K	5%	1/10W
R898	1-216-821-11	METAL CHIP	1K	5%	1/10W
R899	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< TERMINAL BOARD/JACK >			
SJ301	1-694-820-11	TERMINAL BOARD (SPEAKER IMPEDANCE USE 6-16Ω)			
SJ302	1-815-045-11	JACK, PIN 2P (AUDIO IN MD (VIDEO))			
		< THERMISTOR >			
TH1	1-537-770-21	TERMINAL BOARD, GROUND			
TH2	1-537-770-21	TERMINAL BOARD, GROUND			
		< TUNER PACK >			
TU1	A-4303-953-A	TUNER PACK (AEP, UK, KR, AUS)			
TU1	A-4303-954-A	TUNER PACK (US, CND, E, SP, MX, AR)			
		< VIBRATOR >			
X801	1-579-901-11	VIBRATOR, CERAMIC (4.19MHz)			
X802	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
X803	1-579-242-41	VIBRATOR, CRYSTAL (4.332MHz) (AEP, UK)			
**********					
	1-681-807-11	MOTOR BOARD			
		**********			
*	1-568-943-11	PIN, CONNECTOR 5P			
		< SWITCH >			
S1	1-771-799-11	SWITCH, LEVER SLIDE (CD LID OPEN/COLSE DETECT)			
**********					

Ref. No.	Part No.	Description			Remark
	A-4728-261-A	POWER BOARD, COMPLETE (AEP, UK, AUS)			
	A-4729-303-A	POWER BOARD, COMPLETE (E, SP, AR)			
	A-4729-396-A	POWER BOARD, COMPLETE (US, CND)			
	A-4729-399-A	POWER BOARD, COMPLETE (MX)			
	A-4730-026-A	POWER BOARD, COMPLETE (KR)			
		**********			
	1-533-313-11	HOLDER, FUSE			
		< CAPACITOR >			
⚠C901	1-113-925-11	CERAMIC	0.01uF	20%	250V
C910	1-161-494-00	CERAMIC	0.022uF		25V
C911	1-126-947-11	ELECT	47uF	20%	16V
C917	1-126-934-11	ELECT	220uF	20%	10V
C918	1-126-964-11	ELECT	10uF	20%	50V
C919	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C920	1-104-666-11	ELECT	220uF	20%	25V
C921	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C922	1-162-974-11	CERAMIC CHIP	0.01uF		50V
		< CONNECTOR >			
CN901	1-564-321-00	PIN, CONNECTOR 2P			
* CN902	1-766-281-11	PIN, CONNECTOR (PC BOARD) 8P			
		< DIODE >			
D902	8-719-902-17	DIODE 1N5401			
D903	8-719-902-17	DIODE 1N5401			
D904	8-719-902-17	DIODE 1N5401			
D905	8-719-902-17	DIODE 1N5401			
D906	8-719-046-07	DIODE 2A02M			
D907	8-719-046-07	DIODE 2A02M			
D908	8-719-046-07	DIODE 2A02M			
D909	8-719-046-07	DIODE 2A02M			
D910	8-719-991-33	DIODE 1SS133T-77			
D911	8-719-991-33	DIODE 1SS133T-77			
D912	8-719-991-33	DIODE 1SS133T-77			
D913	8-719-991-33	DIODE 1SS133T-77			
D915	8-719-109-97	DIODE MTZJ-T-77-6.8B			
D917	8-719-991-33	DIODE 1SS133T-77			
D918	8-719-109-93	DIODE MTZJ-T-77-6.2B			
		< LINE FILTER >			
⚠LF901	1-424-150-11	TRANSFORMER, LINE FILTER (US, CND)			
		< TRANSISTOR >			
Q901	8-729-028-54	TRANSISTOR	KTC3205-Y-AT		
Q902	8-729-119-79	TRANSISTOR	2SC2785TP-FEK		
Q903	8-729-028-54	TRANSISTOR	KTC3205-Y-AT		
		< RESISTOR >			
R902	1-249-425-11	CARBON	4.7K	5%	1/4W
R903	1-249-409-11	CARBON	220	5%	1/4W
R904	1-249-425-11	CARBON	4.7K	5%	1/4W
R905	1-249-437-11	CARBON	47K	5%	1/4W
⚠R909	1-219-237-11	SOLID	3.3M	20%	1/2W (US, CND)
		< RELAY >			
⚠RY901	1-755-332-11	RELAY			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
⚠S901	1-786-152-11	SWITCH, SLIDE (VOLTAGE SELECTOR) (E, SP, AR)			
		< TRANSFORMER >			
⚠T901	1-437-844-11	TRANSFORMER, POWER (E, SP, AR)			
⚠T901	1-437-730-11	TRANSFORMER, POWER (AEP, UK, KR, AUS)			
⚠T901	1-437-731-11	TRANSFORMER, POWER (US, CND, MX)			
**********					
	A-4728-263-A	TC BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C102	1-126-933-11	ELECT	100uF	20%	16V
C104	1-130-483-00	MYLAR	0.01uF	5%	50V
C105	1-126-960-11	ELECT	1uF	20%	50V
C106	1-126-964-11	ELECT	10uF	20%	50V
C107	1-126-960-11	ELECT	1uF	20%	50V
C108	1-126-961-11	ELECT	2.2uF	20%	50V
C109	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C110	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C111	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C201	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C202	1-126-933-11	ELECT	100uF	20%	16V
C204	1-130-483-00	MYLAR	0.01uF	5%	50V
C205	1-126-960-11	ELECT	1uF	20%	50V
C206	1-126-964-11	ELECT	10uF	20%	50V
C207	1-126-960-11	ELECT	1uF	20%	50V
C208	1-126-961-11	ELECT	2.2uF	20%	50V
C209	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C211	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C400	1-126-964-11	ELECT	10uF	20%	50V
C401	1-126-933-11	ELECT	100uF	20%	16V
C402	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C403	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C407	1-126-965-11	ELECT	22uF	20%	50V
C410	1-126-960-11	ELECT	1uF	20%	50V
C422	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C432	1-136-967-11	MYLAR	0.012uF	5%	50V
C433	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C434	1-126-947-11	ELECT	47uF	20%	35V
C435	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C436	1-126-933-11	ELECT	100uF	20%	16V
C437	1-126-965-11	ELECT	22uF	20%	50V
		< CONNECTOR >			
CN301	1-784-778-11	CONNECTOR, FFC 17P			
CN302	1-691-040-31	CONNECTOR, FFC 8P			
		< DIODE >			
D401	8-719-988-61	DIODE 1SS355TE-17			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC401	6-702-130-01	IC HA12237F			
		< RESISTOR >			
JR102	1-216-864-11	METAL CHIP	0	5%	1/10W
JR103	1-216-864-11	METAL CHIP	0	5%	1/10W
JR104	1-216-864-11	METAL CHIP	0	5%	1/10W
JR105	1-216-864-11	METAL CHIP	0	5%	1/10W
JR106	1-216-864-11	METAL CHIP	0	5%	1/10W
JR201	1-216-864-11	METAL CHIP	0	5%	1/10W
		< TRANSISTOR >			
Q100	8-729-212-02	TRANSISTOR	2SC2120-T		
Q101	8-729-212-02	TRANSISTOR	2SC2120-T		
Q200	8-729-212-02	TRANSISTOR	2SC2120-T		
Q201	8-729-212-02	TRANSISTOR	2SC2120-T		
Q401	8-729-212-02	TRANSISTOR	2SC2120-T		
Q402	8-729-037-02	TRANSISTOR	KTA1266Y-AT		
Q403	8-729-038-67	TRANSISTOR	KRC102S		
Q404	8-759-068-54	TRANSISTOR	KRA102S		
Q405	8-729-038-71	TRANSISTOR	KRC107S		
		< RESISTOR >			
R101	1-216-841-11	METAL CHIP	47K	5%	1/10W
R102	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R103	1-216-833-11	METAL CHIP	10K	5%	1/10W
R104	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R105	1-216-841-11	METAL CHIP	47K	5%	1/10W
R106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R108	1-216-833-11	METAL CHIP	10K	5%	1/10W
R109	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R111	1-216-833-11	METAL CHIP	10K	5%	1/10W
R112	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R113	1-216-797-11	METAL CHIP	10	5%	1/10W
R201	1-216-841-11	METAL CHIP	47K	5%	1/10W
R202	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R204	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R205	1-216-841-11	METAL CHIP	47K	5%	1/10W
R206	1-216-833-11	METAL CHIP	10K	5%	1/10W
R207	1-216-833-11	METAL CHIP	10K	5%	1/10W
R208	1-216-833-11	METAL CHIP	10K	5%	1/10W
R209	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R211	1-216-833-11	METAL CHIP	10K	5%	1/10W
R212	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R213	1-216-797-11	METAL CHIP	10	5%	1/10W
R400	1-218-446-11	METAL CHIP	1	5%	1/10W
R401	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R402	1-216-803-11	METAL CHIP	33	5%	1/10W
R403	1-216-805-11	METAL CHIP	47	5%	1/10W
R404	1-216-833-11	METAL CHIP	10K	5%	1/10W
R405	1-216-797-11	METAL CHIP	10	5%	1/10W
R406	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R407	1-216-841-11	METAL CHIP	47K	5%	1/10W
R408	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R409	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

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TC

Ref. No.	Part No.	Description			Remark
R410	1-216-833-11	METAL CHIP	10K	5%	1/10W
R411	1-216-841-11	METAL CHIP	47K	5%	1/10W
R412	1-216-833-11	METAL CHIP	10K	5%	1/10W
R413	1-216-857-11	METAL CHIP	1M	5%	1/10W
R414	1-216-803-11	METAL CHIP	33	5%	1/10W
R415	1-216-841-11	METAL CHIP	47K	5%	1/10W
R416	1-216-821-11	METAL CHIP	1K	5%	1/10W
R417	1-218-725-11	RES-CHIP	24K	5%	1/10W
R418	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R422	1-216-833-11	METAL CHIP	10K	5%	1/10W
R423	1-216-837-11	METAL CHIP	22K	5%	1/10W
R424	1-216-841-11	METAL CHIP	47K	5%	1/10W
R425	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R426	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R428	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
		< VARIABLE RESISTOR >			
RV101	1-225-282-21	RES, ADJ, CARBON 33K			
RV201	1-225-282-21	RES, ADJ, CARBON 33K			
		< COIL/TRANSFORMER >			
T101	1-419-080-11	COIL			
T201	1-419-080-11	COIL			
T401	1-433-372-31	TRANSFORMER, BIAS OSCILLATION			
		< TERMINAL BOARD >			
TH1	1-537-770-21	TERMINAL BOARD, GROUND			
TH2	1-537-770-21	TERMINAL BOARD, GROUND			
TH3	1-537-770-21	TERMINAL BOARD, GROUND			

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		MISCELLANEOUS
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4	1-757-808-11	CABLE, FLEXIBLE FLAT (18 CORE)
5	1-757-807-11	CABLE, FLEXIBLE FLAT (20 CORE)
12	1-824-335-11	WIRE (FLAT TYPE) (EEC) (8 CORE)
13	1-773-044-11	WIRE (FLAT TYPE) (17 CORE)
15	1-796-353-11	DECK, MECHANICAL
62	1-757-807-11	CABLE, FLEXIBLE FLAT (20 CORE)
63	1-477-315-11	INDICATOR BLOCK, LED
101	1-792-411-11	CABLE, FLEXIBLE FLAT (19 CORE)
⚠105	1-696-169-11	CORD, POWER (AEP, UK, SP)
⚠105	1-696-848-41	CORD, POWER (AUS)
⚠105	1-769-079-21	CORD, POWER (KR)
⚠105	1-775-789-91	CORD, POWER (E, MX)
⚠105	1-783-532-11	CORD, POWER (US, CND)
⚠105	1-783-941-21	CORD, POWER (AR)
513	1-792-411-11	CABLE, FLEXIBLE FLAT (19 CORE)
⚠553	A-4735-357-A	OP BASE ASSY (KSM-213DHAP/ZRP1)
555	1-757-055-11	WIRE, PARALLEL (FFC) (16 CORE)
M901	A-2004-893-A	MOTOR (LD) ASSY (LOADING)
F901	1-533-464-11	FUSE, GLASS TUBE (DIA. 5) (0.8A/250V) (AEP, UK, KR, AUS)
F901	1-576-374-11	FUSE, GLASS TUBE (1.25A/125V) (US, CND, MX)
F902	1-533-466-11	FUSE, GLASS TUBE (DIA. 5) (1.25A/250V) (E, AR, SP)
F903	1-533-468-11	FUSE, GLASS TUBE (DIA. 5) (2A/250V) (AEP, UK, E, AR, SP, KR, AUS)
F903	1-576-375-11	FUSE, GLASS TUBE (3.15A/125V) (US, CND, MX)
F905	1-533-464-11	FUSE, GLASS TUBE (DIA. 5) (0.8A/250V) (E, AR, SP)
T902	1-437-248-11	TRANSFORMER, POWER (AEP, UK, KR, AUS)
T902	1-437-249-11	TRANSFORMER, POWER (US, CND. MX)
T902	1-437-250-11	TRANSFORMER, POWER (E, AR, SP)
TU1	A-4303-953-A	TUNER PACK (AEP, UK, KR, AUS)
TU1	A-4303-954-A	TUNER PACK (US, CND, E, MX, AR, SP)

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		ACCESSORIES
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⚠	1-770-019-51	ADAPTOR, CONVERSION PLUG (UK)

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MEMO

REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2002.02	New (Preliminary)
1.1	2002.03	New (Complete)
1.2	2002.07	Addition of Korean model
1.3	2002.10	Correction of Part No. for Ref. No.12, 13, 62 (SPM-02091)
1.4	2003.02	Correction of Part No. for Ref. No. Q303, Q307, Q313, Q890 on MAIN board (SPM-03004)